pickering	1_

PILPXI LabVIEW Function Reference

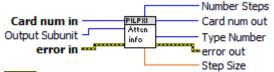
Installed by PXI Installer 4.27.005

V1.2.1

Functions listed in alphabetical order

PILPXI Attenuator Info.vi

Obtains a description of an attenuator sub-unit, as numeric values.



error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

- **Output Subunit** Subunit number.
- **Card num in** Handle combining session handle and card handle.
- **error out** The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

Status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

CODE The **CODE** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

abc

source The **source** string describes the origin of the error or warning.



Step Size Step size, in dB.

Card num out Handle combining session handle and card handle.

PILPXI Attenuator Pad Value.vi

Obtains the attenuation value of a numbered pad. This function facilitates explicit pad selection using PIPLX_OpBit or PIPLX_WriteSub, if the selections made by PIPLX_attenSetAttenuation are not optimal for the application. The number of pads in the sub-unit can be found using PIPLX_SubInfo.

Card n	um in —	Atten
	Subunit 🚽	Attenuation
	lumber —	error out
ei EEE		The error in cluster can accept error information wired from VIs previously called. Use rmation to decide if any functionality should be bypassed in the event of errors from other
	The pop displaye	e-up option Explain Error (or Explain Warning) gives more information about the error
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	1321	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U321	Output	Subunit Subunit number.
U321	Pad Nu	mber Pad number.
U321	Card nu	um in Card number
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	e-up option Explain Error (or Explain Warning) gives more information about the error
) TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

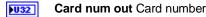


source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

DBL

Attenuation Pad's attenuation value, in dB.



PILPXI Attenuator Type.vi

Obtains a description of an attenuator sub-unit, as a text string. The format of the result is "ATTEN(<number of steps>,<step size in dB>". The description obtained by this VI is a logical one; a physical description indicating the number of discrete pads employed in the attenuator can be obtained using PIPLX Subunit Type.vi.s



error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TF

status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

U32 |

Subunit Subunit number.



Card num in Card number

error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

Status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.

	pick	kering
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
abc	Type St	tring containing description of the subunit of the card.
032	Card nu	um out Card number
Get Bat Card Nu Su	tery Simu Im in	Current.vi ilator (BATT type) channel sink current Card Num out Gat Current Current current um in Pickering card reference of target (unity-based)
U321	Subuni	t sub-unit of target to access (unity-based)
		The error in cluster can accept error information wired from VIs previously called. Use rmation to decide if any functionality should be bypassed in the event of errors from other
	The pop displaye	p-up option Explain Error (or Explain Warning) gives more information about the error
	TFI	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	1321	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
DBL	Current	t variable to receive the current currently set (in Amps)
032	Card N	um out Pickering card reference of target (unity-based)
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	p-up option Explain Error (or Explain Warning) gives more information about the error ed.
	F	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



abc

source The **source** string describes the origin of the error or warning.

Get Batt Card Nu Sui	ery Simu	Enable.vi lator (BATT type) channel output enable states PILPRI Card Num out Batt Get Enable Enable error out	
U32		um in Pickering card reference of target (unity-based)	
U32	Subunit	t sub-unit of target to access (unity-based)	
	error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.		
	The pop displaye	e-up option Explain Error (or Explain Warning) gives more information about the error	
	TFI	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
032		variable to receive the pattern of channel outputs currently enabled ('1' bit indicates onding channel is enabled)	
032	Card Nu	um out Pickering card reference of target (unity-based)	
	error οι VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other	
	The pop displaye	e-up option Explain Error (or Explain Warning) gives more information about the error	
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	



Get Bat Card Nu Su	tery Simu I m in Ibunit - ror in*	Voltage.vi ulator (BATT type) channel output voltage Card Num out Batt Voltage Voltage Voltage um in Pickering card reference of target (unity-based)		
U32	sub-uni	t When Subunit corresponds to a BATT sub-unit, the function sets the voltage of that t alone.If Subunit = 0 (BATT_ALL_BATT_SUB_UNITS), all of the card's BATT sub-units are ne given voltage.		
		error in The error in cluster can accept error information wired from VIs previously called. Use his information to decide if any functionality should be bypassed in the event of errors from other /Is.		
	The pop displaye	p-up option Explain Error (or Explain Warning) gives more information about the error ed.		
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
	1321	code The code input identifies the error or warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
	abc	source The source string describes the origin of the error or warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
DBL	Voltage	e variable to receive the voltage currently set (in Volts)		
032	Card N	um out Pickering card reference of target (unity-based)		
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other		
	The pop displaye	p-up option Explain Error (or Explain Warning) gives more information about the error ed.		
) TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
	132	code The code input identifies the error or warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
	abc	source The source string describes the origin of the error or warning.		



The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

PILPX	I Batt	Read	Interlock	State.vi

Get Battery Simulator (BATT type) interlock state

Card Num in	PILPXI	Card Num o	out
Subunit -	Batt Get	Interlock	
error in		error out	
Card Num	in Picka	oring card reference	<u>_</u>

Card Num in Pickering card reference of target (unity-based)

032

Subunit sub-unit of target to access (unity-based)

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Interlock variable to receive the interlock state

Card Num out Pickering card reference of target (unity-based)

error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

Status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

abc

source The **source** string describes the origin of the error or warning.



PILPXI Batt Set Current.vi

Set Battery Simulator (BATT type) channel sink current

Card Num in PILPEI Card Num out Subunit Subunit Current error out

error in ----

032

Card Num in Pickering card reference of target (unity-based)

Subunit When Subunit corresponds to a BATT sub-unit, the function sets the sink current of that sub-unit alone.If Subunit = 0 (BATT_ALL_BATT_SUB_UNITS), all of the card's BATT sub-units are set to the given current.

DBL Current the current to set (in Amps)

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TFI

status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

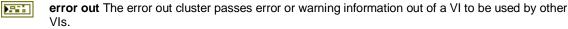
132 code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Eard Num out Pickering card reference of target (unity-based)



The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

Status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Code The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

abc

source The **source** string describes the origin of the error or warning.



PILPXI Batt Set Enable.vi

032

U32

Set Battery Simulator (BATT type) channel output enable states

Card Num in PILPRI Card Num out

Pattern -

Card Num in Pickering card reference of target (unity-based)

Subunit When SubNum corresponds to a BATT sub-unit, the function sets the output enable state of that sub-unit alone according to the least significant bit of Pattern (0 = OFF, 1 = ON). If SubNum = 0 (BATT_ALL_BATT_SUB_UNITS), enable states of all the card's BATT sub-units are set; bits in the supplied Pattern are utilised in ascending order of BATT sub-unit, i.e.

Pattern the pattern of channel outputs to enable ('1' bit enables corresponding channel)

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TF

status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

132

code The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.



Card Num out Pickering card reference of target (unity-based)

error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

code The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The **source** string describes the origin of the error or warning.

_	pickering	1_

		Voltage.vi lator (BATT type) channel output voltage
Card Nu	ım in —	Gran Type) chamier output voltage
	ubunit - ltage	Set Voltage
err U32	Card N	um in Pickering card reference of target (unity-based)
U32	Subuni	t sub-unit of target to access (unity-based)
DBL	Voltage	the voltage to set (in Volts)
		The error in cluster can accept error information wired from VIs previously called. Use rmation to decide if any functionality should be bypassed in the event of errors from other
	The pop displaye	b-up option Explain Error (or Explain Warning) gives more information about the error ed.
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
032	Card N	um out Pickering card reference of target (unity-based)
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	p-up option Explain Error (or Explain Warning) gives more information about the error
	F	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



PILPXI Card Id.vi

Obtains the identification string of the specified card. The string contains these elements:

"model code;serial number;revision code"

The <revision code> value represents the hardware version of the unit - cards have no firmware on-board. Card num in PILPXI Card num out

error in	Card ID	Card ID
error III		error out

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TFI status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



code The code input identifies the error or warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

source The source string describes the origin of the error or warning. abc

> The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

U32

Card num in Card number

error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TF status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

abc source The source string describes the origin of the error or warning.

> The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Card ID String containing card identification. abc

032 Card num out Card number



Obtains the location of the specified card in terms of the logical PCI bus and device number in which it is located. Т

These v Card nu		n be cross-referenced to physical slot locations in a particular system.
en	ror in 🚥	
		The error in cluster can accept error information wired from VIs previously called. Use rmation to decide if any functionality should be bypassed in the event of errors from other
	The pop displaye	o-up option Explain Error (or Explain Warning) gives more information about the error ed.
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
032	Card nu	um in Card number
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	o-up option Explain Error (or Explain Warning) gives more information about the error
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	Dural	

- 032 **Bus** Logical PCI bus number of the card.
- Slot Logical PCI device number of the card. 032
- 032 Card num out Card number

PILPXI Card Ops Count.vi

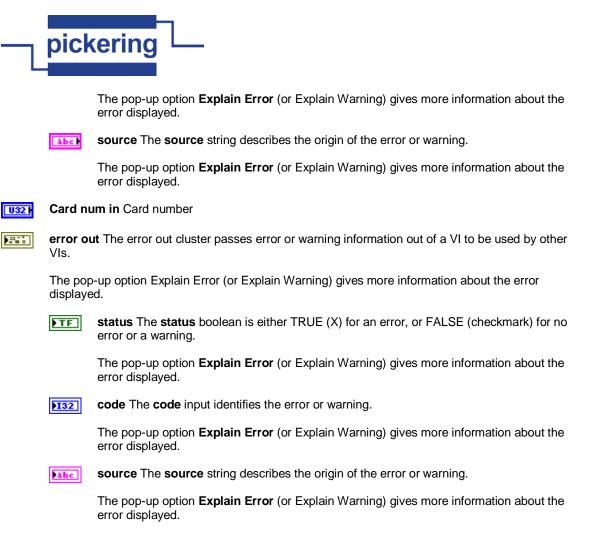
Returns count of switched relays from operation system start.

pickering				
Card nu	m in —	FILEXI Card num out		
	error in	The error in cluster can accept error information wired from VIs previously called. Use rmation to decide if any functionality should be bypassed in the event of errors from other		
	The pop displaye	o-up option Explain Error (or Explain Warning) gives more information about the error ed.		
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
	132	code The code input identifies the error or warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
	abc	source The source string describes the origin of the error or warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
U32	Card nu	u m in Card number		
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other		
	The pop displaye	p-up option Explain Error (or Explain Warning) gives more information about the error		
	FL	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
	132	code The code input identifies the error or warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
	abc	source The source string describes the origin of the error or warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
032	Count	Number of operations.		
JU32	Card nu	u m out Card number		
	Clear All disconne	ects) all outputs of all sub-units of all opened Pickering card.		
error in	error in	The error in cluster can accept error information wired from VIs previously called. Use rmation to decide if any functionality should be bypassed in the event of errors from other		

	pick	kering
	The pop displaye	o-up option Explain Error (or Explain Warning) gives more information about the error
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abci	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	error o u VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
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		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
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		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	Clear Ca	rd vi
	disconne	cts) all outputs of all sub-units of the specified Pickering card.
er		The error in cluster can accept error information wired from VIs previously called. Use rmation to decide if any functionality should be bypassed in the event of errors from other
	The pop displaye	p-up option Explain Error (or Explain Warning) gives more information about the error
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.



Card num out Card number

PILPXI Clear Mask.vi

Clears a sub-unit's switch mask, enabling operation of all outputs by the PIPLX OpenClose Bit.vi, PIPLX OpenClose Crosspoint.vi and PIPLX Write Subunit.vi VIs.

Card num in	PILPXI	Card num out
Output Subunit -	Clear	
	mask	error out

error in error in the error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TFI

status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

abc

source The **source** string describes the origin of the error or warning.



Output Subunit Subunit number.

U32

U321	Card num in Card number		
	error out The error out cluster passes error or warning information out of a VI to I VIs.		
	The pop displaye	e-up option Explain Error (or Explain Warning) gives more information about the error	
	FL	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
032	Card nu	im out Card number	
Clears (Card n Output S	um in — Subunit - ⁷ rror in == error in	cts) all outputs of a subunit.	
	The pop displaye	e-up option Explain Error (or Explain Warning) gives more information about the error	
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.



Output Subunit Subunit number.



Card num in Card number

	pick	ering
	error o u VIs.	It The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	-up option Explain Error (or Explain Warning) gives more information about the error d.
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
032	Card nu	m out Card number
PILPXI Close Cards.vi Closes all open Pickering cards, which must have been opened using OpenCards. This VI should be called when the application program has finished using them. error in Close Cards error out error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.		
	The pop displaye	-up option Explain Error (or Explain Warning) gives more information about the error d.
	TFI	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	error ou VIs.	It The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	-up option Explain Error (or Explain Warning) gives more information about the error d.
) TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

一	pick	kering
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
Closes called w card nun	the specific then the a mber or in second or in second	Decified Card.vi fied Pickering card, which must have been opened using OpenSpecifiedCard. This VI should be application program has finished using the card. PILFN Close cord error out The error in cluster can accept error information wired from VIs previously called. Use rmation to decide if any functionality should be bypassed in the event of errors from other
	The pop displaye	p-up option Explain Error (or Explain Warning) gives more information about the error
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U321	card nu	mber Card number
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	b-up option Explain Error (or Explain Warning) gives more information about the error
) TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.



The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

PILPXI Closure Limit.vi

Obtains single-cl as high- these typ Card nu Output S	hannel m density m pes (see im int — ubunit –	mum number of switches that may be activated simultaneously in the specified sub-unit. A ultiplexer (MUX type) allows only one channel to be closed at any time. In some other models such atrix types a limit is imposed to prevent overheating; although it is possible to disable the limit for PIPLX Set Mode.vi), doing so is not recommended.
er		The error in cluster can accept error information wired from VIs previously called. Use rmation to decide if any functionality should be bypassed in the event of errors from other
	The pop displaye	-up option Explain Error (or Explain Warning) gives more information about the error d.
	TFI	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U321	Output	Subunit Output subunit.
U321	Card nu	im int Card number
	error out The error out cluster passes error or warning information out of a VI to be used by other VIs.	
	The pop displaye	-up option Explain Error (or Explain Warning) gives more information about the error d.
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.





Card num out Card number

PILPXI Count Free Cards.vi

Obtains the number of installed cards that are operable by the Piplx driver but are not currently opened by it.

free Num Cards

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TF

error in

status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

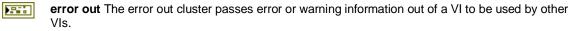
132

code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.



The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no
	error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

5132 code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The **source** string describes the origin of the error or warning.

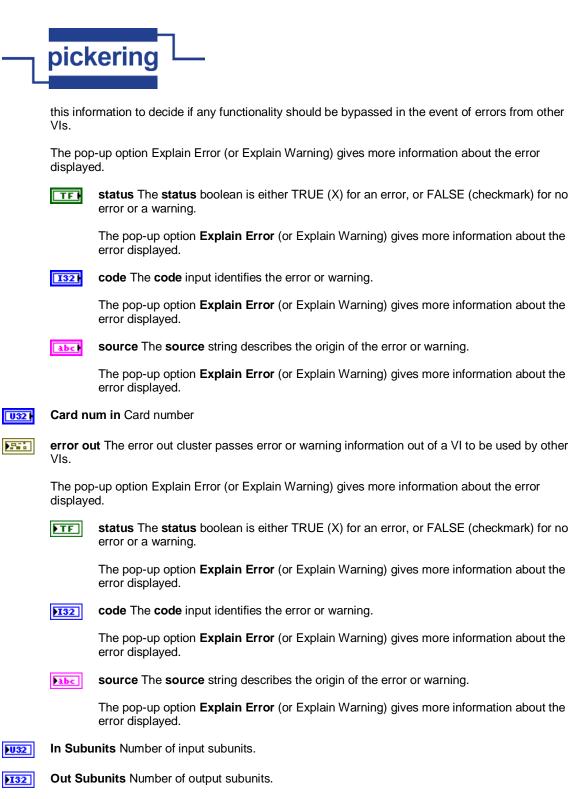
The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Num Cards Number of available cards.

PILPXI Diagnostic.vi

Obtains the diagnostic string of the specified card, giving expanded information on any fault conditons indicated by the PIPLX Status.vi value.

_	pick	kering	
Card nu err	m in —	Diag nostic Diag Result	
	error in	The error in cluster can accept error information wired from VIs previously called. Use rmation to decide if any functionality should be bypassed in the event of errors from other	
	The pop displaye	-up option Explain Error (or Explain Warning) gives more information about the error	
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
U32	Card nu	im in Card number	
	error o u VIs.	It The error out cluster passes error or warning information out of a VI to be used by other	
	The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
	F	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
abc	Diag Re	esult Diagnostic string.	
032	Card nu	Im out Card number	
Obtains Card nu	the numb m in or in	te Subs.vi bers of input and output sub-units implemented on the specified card. Card num out Out Subunits In Subunits error out The error in cluster can accept error information wired from VIs previously called. Use	
	GITOT III	The error in cluster can accept error information when noth vis previously called. Use	



Card num out Card number

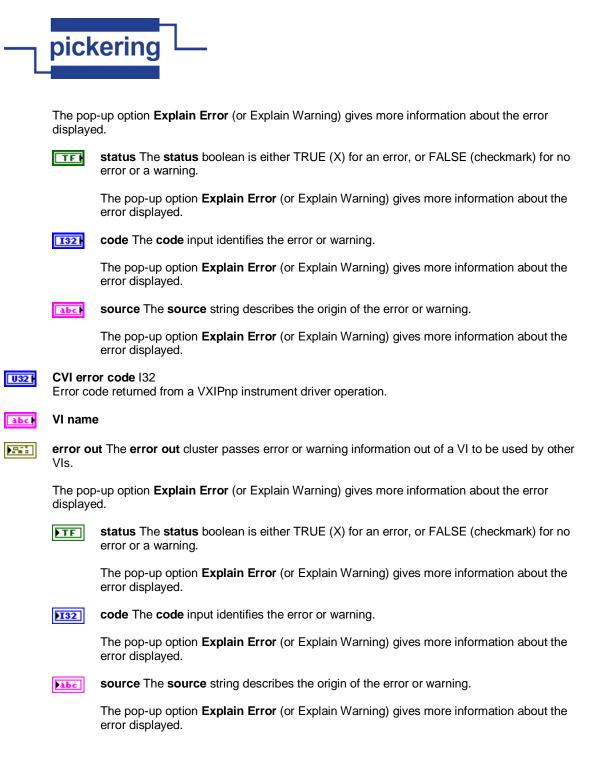
PILPXI Error Converter.vi

This VI converts error codes from VXIPnp instrument driver to standard LabVIEW error codes. If an error is detected the VI builds the appropriate error cluster that is readable by one of the error handlers supplied with LabVIEW.

VI name PILPXI error code CONVERT

error in error out

error in The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



PILPXI Find Free Cards.vi

Obtains the logical bus and slot locations of installed cards that are operable by the Piplx driver and are currently unopened. These values are used with PIPLX Open Specified Card.vi.

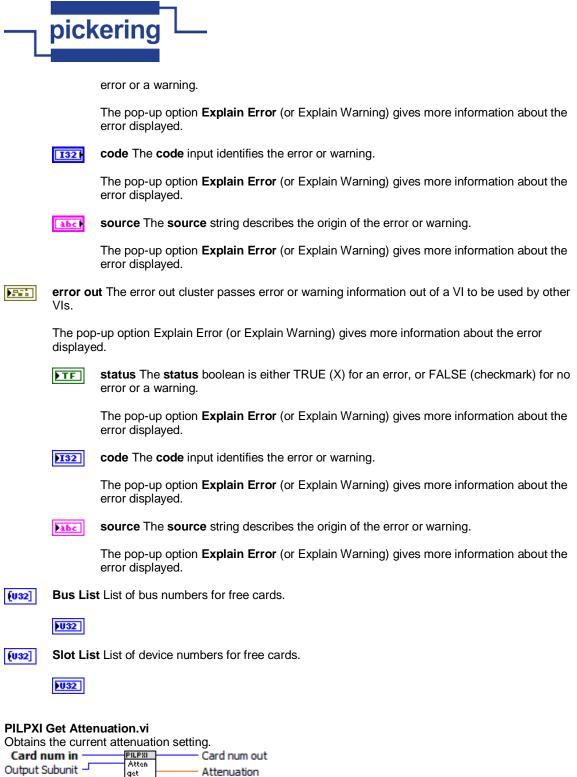


error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no



- error in
- **error in** The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.



error displayed.

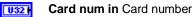
code The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

U32 Output Subunit Subunit number.



error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TF S

status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

code The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Attenuation Attenuation value, in dB.



PILPXI Get Attribute DWORD.vi

Obtains the value of DWORD-type attribute.

Attribute Code

Card num in <u>FILPH</u> Card num out Output Subunit <u>Get</u> Attr Value

error in error out

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

٦	pick	kering	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
U321	Output	Subunit Subunit number.	
U16	Attribut	e Code of DWORD attribute.	
TF	Output	subunit True for output subunit, false for input subunit.	
U321	Card nu	Im in Card number	
	error out The error out cluster passes error or warning information out of a VI to be used by other VIs.		
	The pop displaye	-up option Explain Error (or Explain Warning) gives more information about the error d.	
) TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
032	Value V	alue of attribute.	
032	Card nu	im out Card number	
	Get Resi	stance.vi	

Obtains the current resistance setting of the specified programmable resistor. This function is only usable with programmable resistor models that support it, such as 40-260-001.

Card num in ——	PILPXI	—— Card num out
Output Subunit	Get	- Resistance
	Resist	

error in error out

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.



error displayed.

code The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Output Subunit Subunit number.



error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

FTF sta

status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

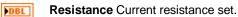
code The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Card num out Card number



PILPXI Get Version.vi

error in

.....

Returns a version of library.

Get

Library Version

version error out

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

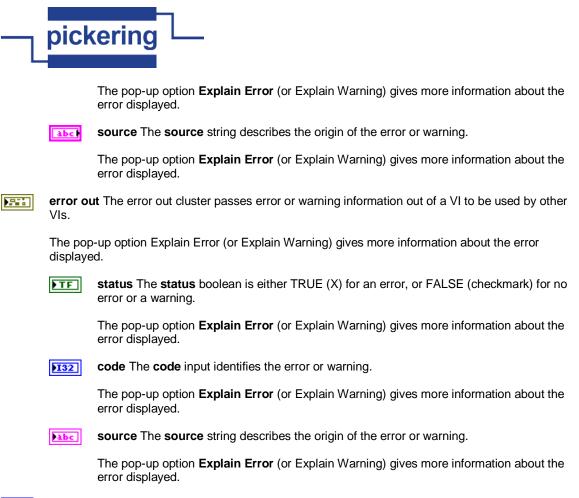


status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.



code The code input identifies the error or warning.



Library Version Version number of pilpxi library.

PILPXI Init.vi

Opens the specified Pickering card. Once a card has been opened, other driver VIs may then be used to access it. If the card is currently opened by some other program it cannot be accessed and the VI returns an error.

This VI uses Pickering Resource Management system to find location of card.

Alias -	PILPXI	—— card number
Storage *	Open spec	
- and a ga	cord	and a state of the

error in error out

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

abc

source The source string describes the origin of the error or warning.



abc	Alias Alias defined in a resource management file		
abc	Storage Path to the stored resource management file		
DBL	Access	Not implemented yet.	
	error out The error out cluster passes error or warning information out of a VI to be used by other VIs.		
	The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
) TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
032	card nu	Imber Card number	

PILPXI Op Bit.vi

Operate a single output channel or bit. Note that in the case of a single-channel multiplexer (MUX type) any existing channel closure will be cleared automatically prior to selecting the new channel. Note that OpCrosspoint allows more straightforward use of row/column co-ordinates with matrix sub-units.

Action Card num in Output Subunit Bit Number error in error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

Status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.



code The code input identifies the error or warning.

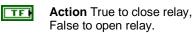
The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The source string describes the origin of the error or warning.



error displayed.





[132] Card num in Card number

error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



2.1

status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.



source The source string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Card num out Card number

PILPXI Op Crosspoint.vi

Operate a single matrix crosspoint.				
Row				
Card number in PILPXI Card number out				
Output Subunit				
Action Action error out				
error in				
Column				
error in The error in cluster can accept error info				

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

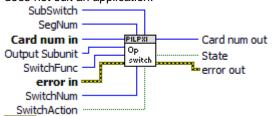


code The code input identifies the error or warning.

pickering				
	abc	source The source string describes the origin of the error or warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
U32	Output	Subunit Subunit number.		
U321	Row Crosspoint row (Y) location.			
U321	Column Crosspoint column (X) location.			
TF	Action True to close relay, False to open relay.			
U32	Card number in Card number			
	error out The error out cluster passes error or warning information out of a VI to be used by other VIs.			
	The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.			
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
	132	code The code input identifies the error or warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
	abc	source The source string describes the origin of the error or warning.		
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
032	Card number out Card number			

PILPXI Op Switch.vi

This VI obtains, and optionally sets, the state of a switch. It allows explicit access to the individual switches making up a sub-unit, in types where their operation is normally handled automatically by the driver. The main purpose of this is in implementing fault diagnostic programs for such types; it can also be used where normal automated behaviour does not suit an application.

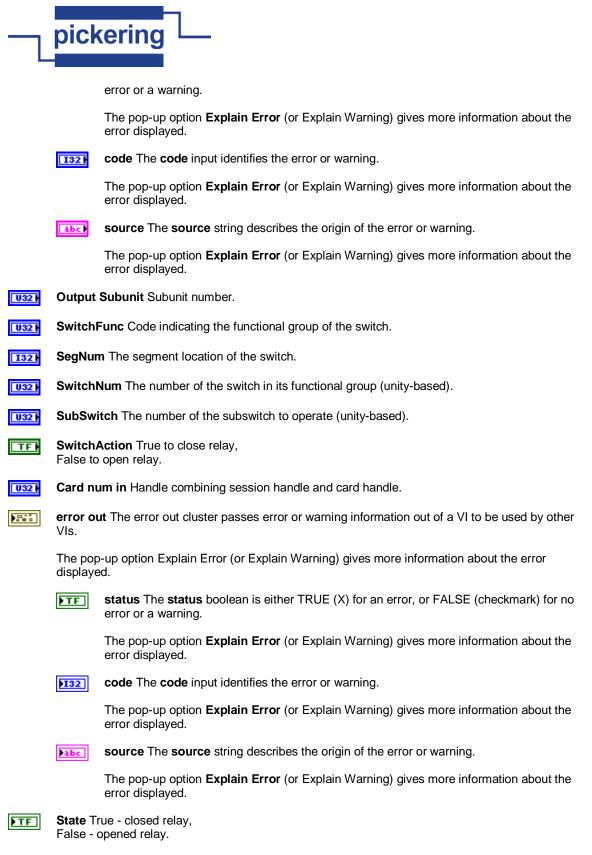


error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TF

status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no



Card num out Handle combining session handle and card handle.

PILPXI Open Cards.vi

Locates and opens all installed Pickering cards. Once cards have been opened, other VIs may then be used to access cards by their handles. If cards are currently opened by some other program they cannot be accessed and the VI returns error.

_	pick	kering	
error in •	error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.		
	The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	error out The error out cluster passes error or warning information out of a VI to be used by other VIs.		
	The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.		
	F	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the	

Opened cards Number of opened cards using OpenCards VI.

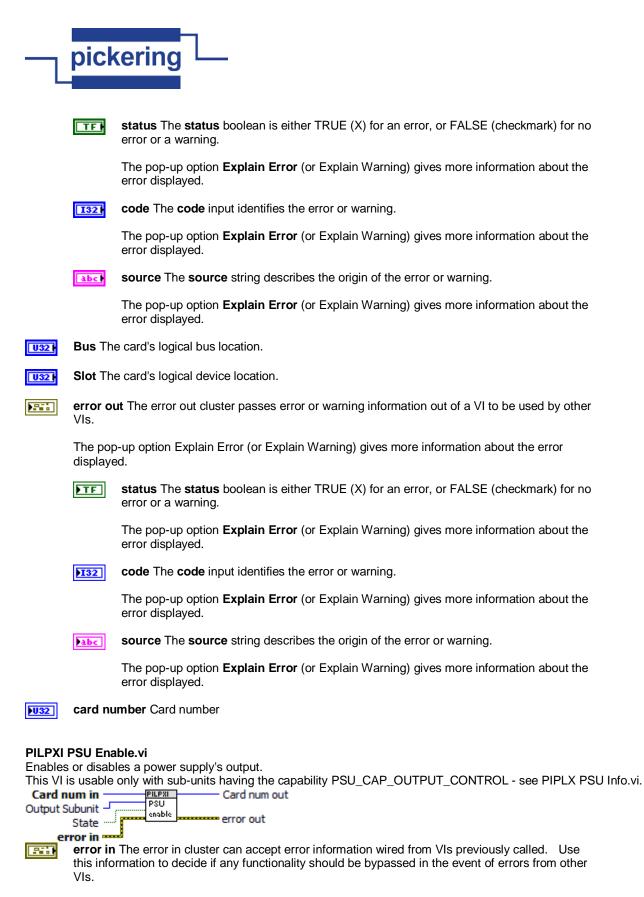
PILPXI Open Specified Card.vi

Opens the specified Pickering card. Once a card has been opened, other driver VIs may then be used to access it. If the card is currently opened by some other program it cannot be accessed and the VI returns an error.



error displayed.

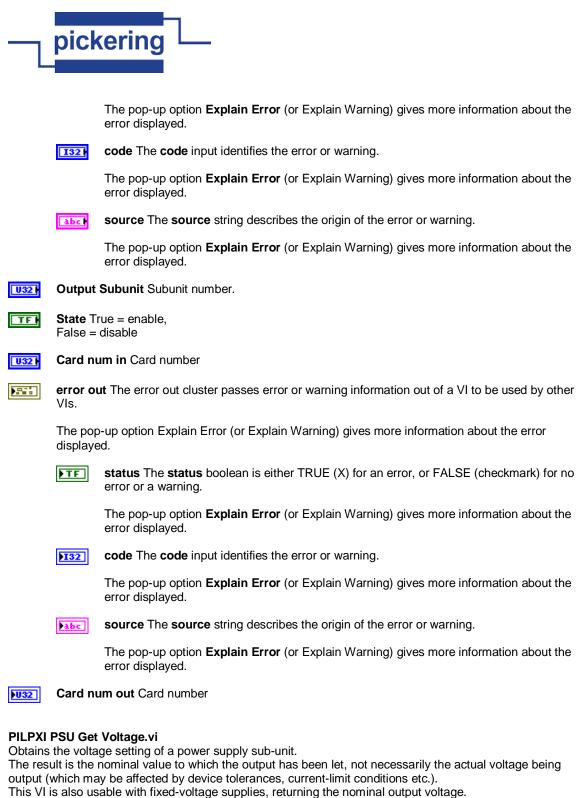
error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

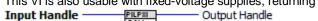


The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.





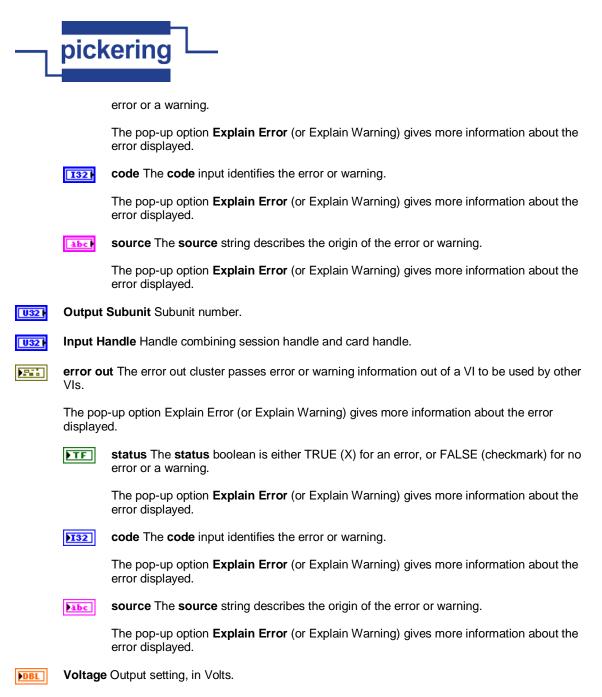


error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no

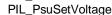


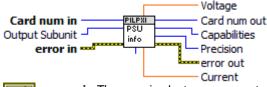
Dutput Handle Handle combining session handle and card handle.

PILPXI PSU Info.vi

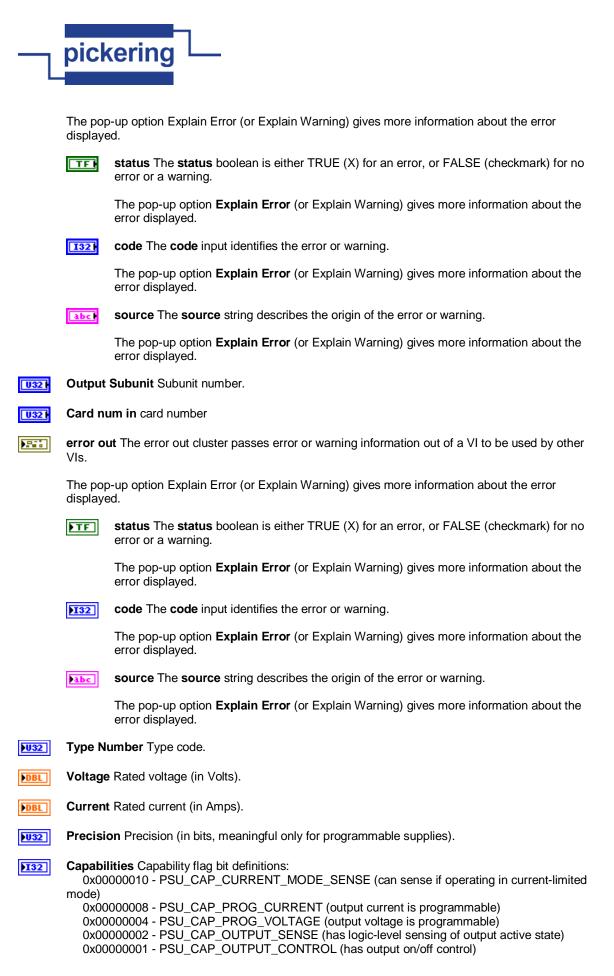
Obtains a description of a power supply sub-unit, as numeric values. Power supply sub-unit type code is: 9 - TYPE_PSUDC (DC power supply)

Certain driver VIs are only usable with sub-units having appropriate capabilities - examples being: PIL PsuEnable





error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.





PILPXI PSU Set Voltage.vi

Sets the output voltage of a power supply sub-unit to the specified value. The voltage value specified is rounded to the precision of the supply's DAC. The actual voltage setting can be obtained using PIPLX PSU Get Voltage.vi. This VI is usable only with sub-units having the capability PSU_CAP_PROG_VOLTAGE - see PIPLX PSU Info.vi.

-	Subunit -	PSU set voltage	
	Voltage error in the error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.		
	The pop displaye	b-up option Explain Error (or Explain Warning) gives more information about the error	
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
U32	Output	Subunit Subunit number.	
DBL	Voltage	The output voltage to set, in Volts.	
U321	Card nu	um in Card number	
155	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other	
	The pop displaye	b-up option Explain Error (or Explain Warning) gives more information about the error ed.	
) TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	



PILPXI PSU Type.vi

Obtains a description of a power supply sub-unit, as a text string. For a DC power supply the format of the result is "PSUDC(<rated voltage>,<rated current>)".

Card num in Card num out			
SubunitType			
en	error in	error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other	
	The pop displaye	b-up option Explain Error (or Explain Warning) gives more information about the error	
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abci	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
U321	Subuni	Subunit number.	
U321	Card nu	um in Card number	
	error o VIs.	error out The error out cluster passes error or warning information out of a VI to be used by other VIs.	
	The pop displaye	o-up option Explain Error (or Explain Warning) gives more information about the error ed.	
) TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
abc	Type St	tring containing description of the subunit of the card.	



Card num out Card number



PILPXI Read Bit.vi Obtains the state of an individual input. Card num in Card num out Input Subunit State Bit Number State Bit Number error out error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.			
	The pop displaye	e-up option Explain Error (or Explain Warning) gives more information about the error	
	TFI	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
U321	Input S	ubunit Subunit number.	
U321	Bit Number Bit number.		
U321	Card nu	Card num in Card number	
	error o u VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other	
	The pop displaye	e-up option Explain Error (or Explain Warning) gives more information about the error	
	F	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	132	code The code input identifies the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
	abc	source The source string describes the origin of the error or warning.	
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.	
) TF		rue = logical 1, logical 0	
032	Card nu	Im out Card number	



PILPXI Read Calibration Data.vi

Reads a 16-bit calibration value from on-card EEPROM.

The driver places no interpretation on the value obtained - an application program can utilise it in any way it wishes.

Card num in —	PILPXI Card num out
Output Subunit -	Bead col
Index —	data error out
error in	1

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

- U321 Output Subunit Subunit number.
- [132] Index Calibration value index.
- U32

Card num in Card number

error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

Status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

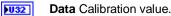
The pop-up option **Explain Error** (or Explain Warning) gives more information about the

error displayed.

code The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The source string describes the origin of the error or warning.





Card num out Card number

032

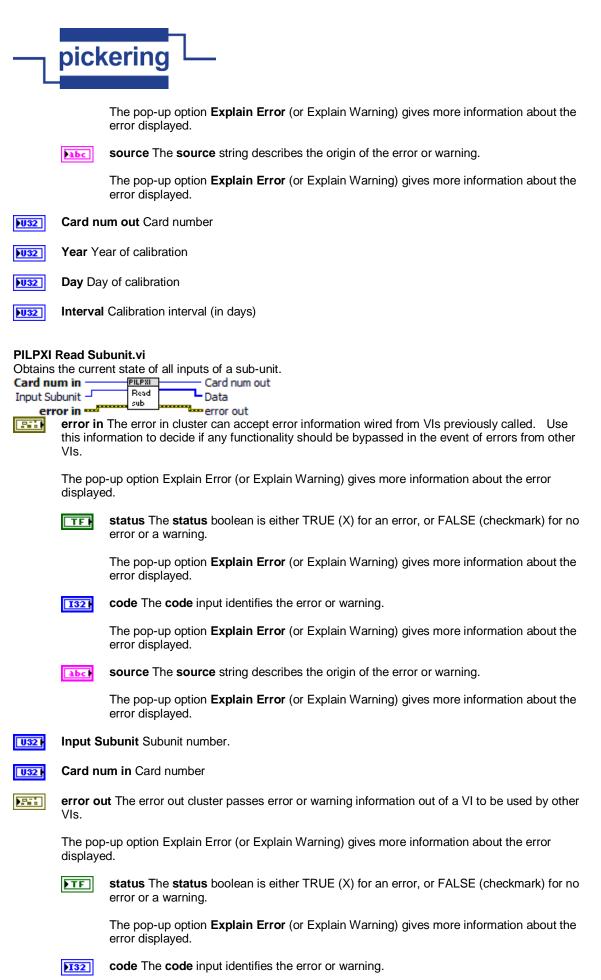
PILPXI	Read Ca	libration DataFP.vi
		pre floating-point calibration values from on-card EEPROM.
	Offset —	
Card n		PILPXI Card num out
Output S		
	Store —	error out
	ror in 🚥	
	values —	
		The error in cluster can accept error information wired from VIs previously called. Use mation to decide if any functionality should be bypassed in the event of errors from other
	VIs.	Infation to decide if any functionality should be bypassed in the event of errors nonrother
	v13.	
	The por	p-up option Explain Error (or Explain Warning) gives more information about the error
	displaye	
	1 - 7 -	
	TFI	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no
		error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the
		error displayed.
	132	code The code input identifies the error or warning.
		The persuit antion Explain Error (or Explain Warning) gives more information about the
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
		entil displayed.
	abc	source The source string describes the origin of the error or warning.
	للتعتيي	
		The pop-up option Explain Error (or Explain Warning) gives more information about the
		error displayed.
U32	Output	Subunit Subunit number.
U32	Card nu	u m in Card number
U32	Store V	alue indicating which store to access
U32	Offset t	he offset in the sub-unit's calibration store at which to start
U32	Num Va	alues The number of values to be written
		ut The error out cluster passes error or warning information out of a VI to be used by other
	VIs.	
	The per	a up option Evoloin Error (or Evoloin Marning) gives more information about the arror
		p-up option Explain Error (or Explain Warning) gives more information about the error
	displaye	<i>и</i> .
	F	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no
	لنغت	error or a warning.

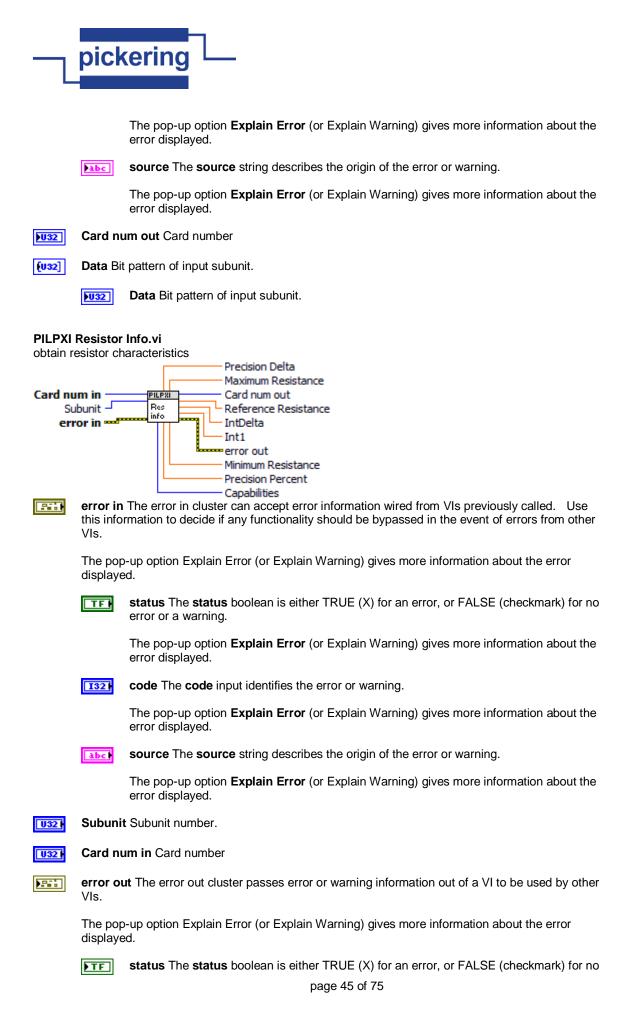
The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

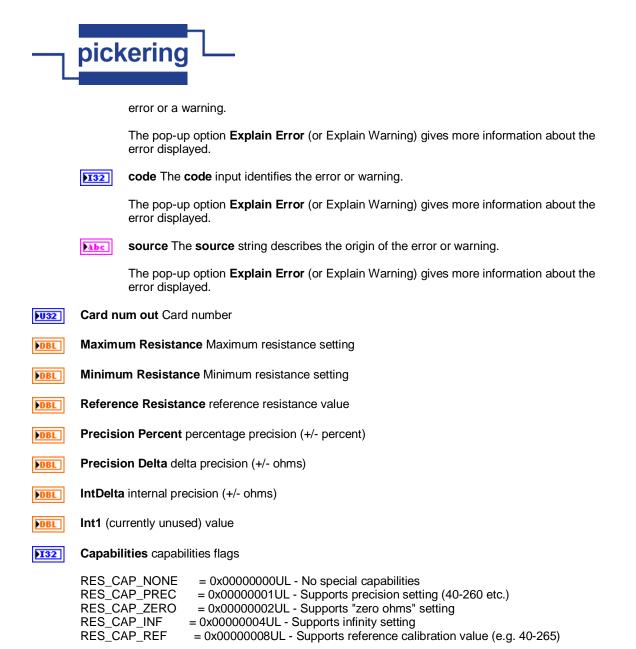
132

code The code input identifies the error or warning.

-	pick	cering
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
032	Card nu	Im out Card number
[DBL]	Data Ar	ray containing values to write
	DBL	Num Values 2 The number of values to be written
Reads a Card n Output S	usub-unit um in ubunit Store	libration Date.vi 's calibration date and interval from on-card EEPROM. Card num out Card num out
		The error in cluster can accept error information wired from VIs previously called. Use rmation to decide if any functionality should be bypassed in the event of errors from other
	The pop displaye	-up option Explain Error (or Explain Warning) gives more information about the error d.
	TFI	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U321	Output	Subunit Subunit number.
U321	Card nu	im in Card number
U321	Store V	alue indicating which store to access
	error o u VIs.	It The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	-up option Explain Error (or Explain Warning) gives more information about the error d.
	F	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.

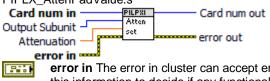






PILPXI Set Attenuation.vi

Sets the attenuation to the specified value. The combination of pads inserted to achieve the desired attenuation level is determined by the driver for best all-round performance. In some models it may be possible to optimise particular aspects of attenuator performance by setting other pad combinations explicitly using PIPLX_OpBit or PIPLX_WriteSub. The pad value associated with each output channel can be discovered with PIPLX AttenPadValue.s

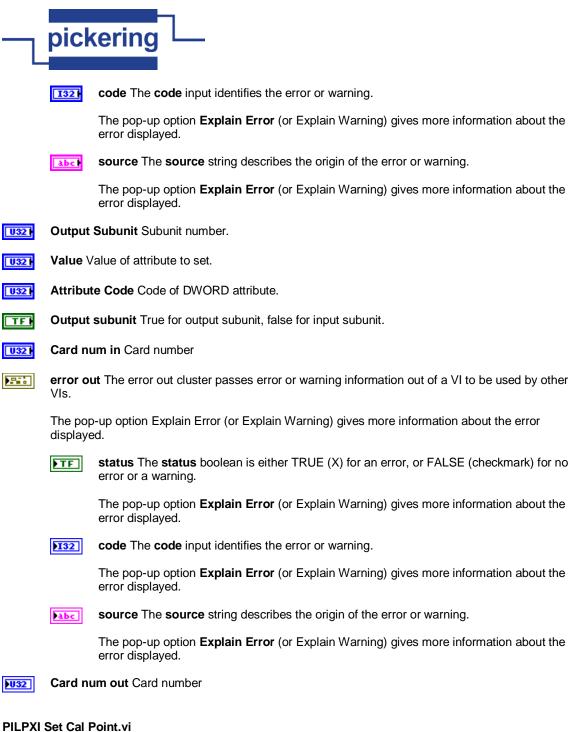


error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

_	pic	kering
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U321	Output	Subunit Subunit number.
SGL	Attenua	ation The attenuation value to be set, in dB.
U321	Card n	u m in Card number
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	b-up option Explain Error (or Explain Warning) gives more information about the error
	F	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
032	Card n	um out Card number
Set DW Attribut Card I Output !	/ORD-typ te Code Subunit - Value error in this info VIs.	bute DWORD.vi e attribute value. Card num out Card num out Card num out error out The error in cluster can accept error information wired from VIs previously called. Use rmation to decide if any functionality should be bypassed in the event of errors from other o-up option Explain Error (or Explain Warning) gives more information about the error ed.
	TFI	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.



Writes a sub-unit's calibration date and interval into on-card EEPROM. Date information is obtained from the current system date.

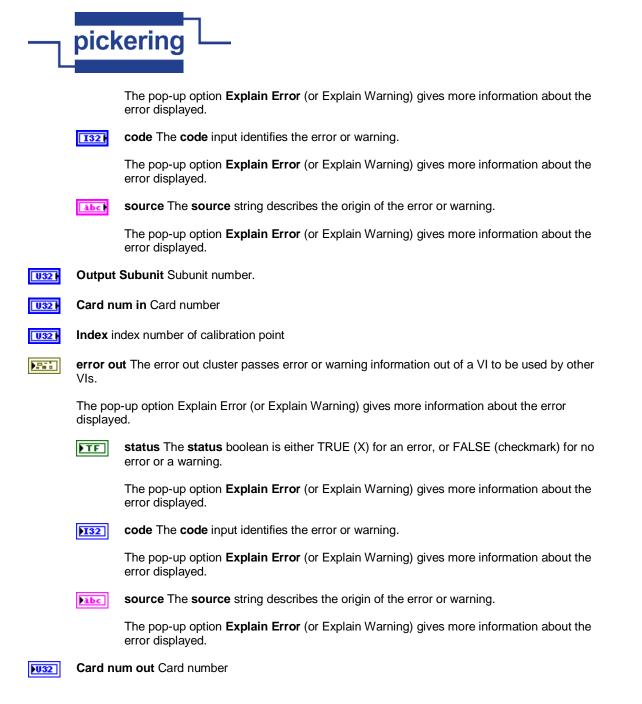
Card num in FILERI Card num out Output Subunit Index

error in and error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TF

status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.



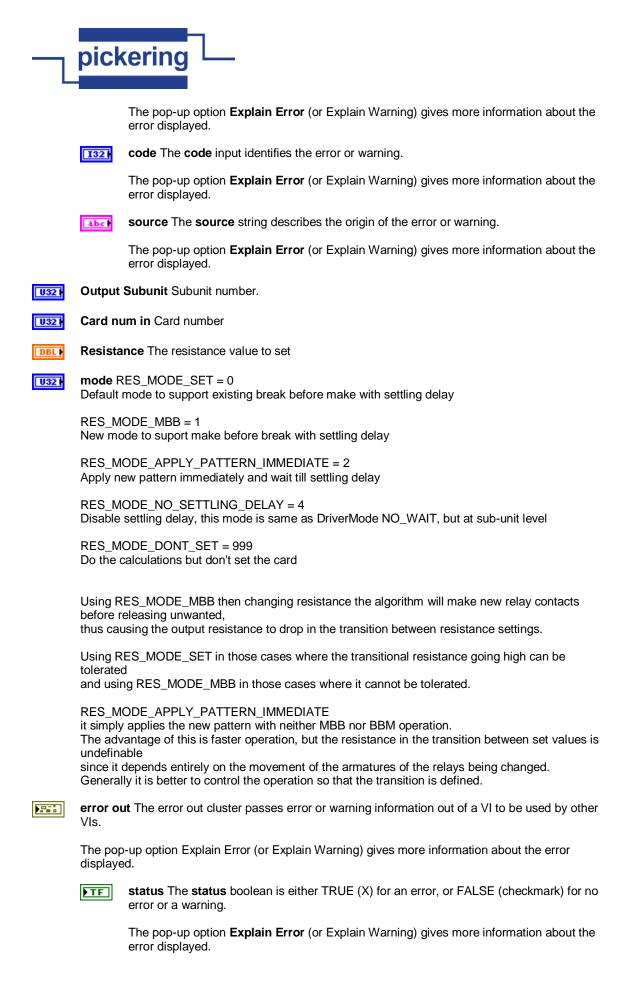
PILPXI Set Mode.vi

VIs.

Allows control flags affecting the driver's global behaviour to be set and read. This VI gives access o low-level control features of the Pilpxi driver and is intended for 'expert' use only - the default driver behaviour should be satisfactory for the great majority of applications:

MODE_DEFAULT MODE_NO_WAIT	= 0x00000000UL,// Default, no special modes set= 0x00000001UL,// Function calls exclude output settling delay
MODE_UNLIMITED	= 0x0000002UL,// Disable maximium closure limits
MODE_REOPEN	= 0x0000004UL,// Allow re-open without clearing cards
MODE_IG <u>NORE_</u> TEST	= 0x0000008UL // Enable card operation even if selftest fails
	Old mode
error in mode	error out
	ster can accept error information wired from VIs previously called. Use
this information to decide	e if any functionality should be bypassed in the event of errors from other

	pick	kering
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U32	Mode F	lags New value for driver mode flags.
	error o u VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	b-up option Explain Error (or Explain Warning) gives more information about the error
) TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
132	Old mo	de The driver's mode flags prior to executing this function
Sets a p program Card n Output S Resi	orogramm nmable re mode — Subunit — Subunit — istance — rror in —	stance.vi hable resistor to the closest available setting to the value specified. This function is only usable with esistor models that support it, such as 40-260-001. Card num out Card num out error out The error in cluster can accept error information wired from VIs previously called. Use
	VIs.	rmation to decide if any functionality should be bypassed in the event of errors from other
	The pop displaye	b-up option Explain Error (or Explain Warning) gives more information about the error ed.
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.



٦	pic	kering
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
032	Card n	um out Card number
Obtains control can be Card of Output	during th overrider num in Subunit rror in error in	nit's settling time (the period taken for its switches to stabilise). By default, Piplx driver VIs retain is period so that switches are guaranteed to have stabilised on completion. This mode of operation if required - see PIPLX Set Mode.vi. Card num out Settle Settle Settling Time
	The po display	p-up option Explain Error (or Explain Warning) gives more information about the error ed.
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	1321	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U321	Output	Subunit Output subunit.
U321	Card n	um in Card number
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
	The po display	p-up option Explain Error (or Explain Warning) gives more information about the error ed.
) TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the



error displayed.

Source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.



Settling Time Settling time of relays on subunit.



Card num out Card number

PILPXI Status.vi

Obtains the current status flags for the specified card.

Status bits are as follows:

0x80000000 - STAT_NO_CARD (no card with specified number)
0x40000000 - STAT_WRONG_DRIVER (card requires newer driver)
0x20000000 - STAT_EEPROM_ERR (card EEPROM fault)
0x10000000 - STAT_DISABLED (card disabled)
0x04000000 - STAT_BUSY (card operations not completed)
0x02000000 - STAT_HW_FAULT (card hardware defect)
0x01000000 - STAT_PARITY_ERROR (PCIbus parity error)
0x00000000 - STAT_OK (card functional and stable)
Card num in Card num out
Status Status
error in error out

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

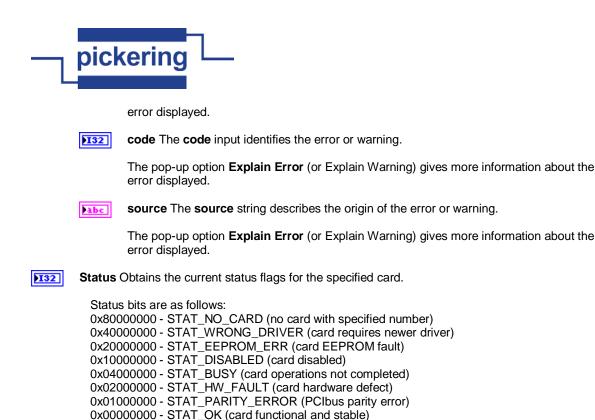
U321 Card num in Card number

error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.



Card num out Card number

PILPXI Subunit Attribute.vi

Obtains the value of a sub-unit property. These values facilitate operation using PIPLX OpenClose Switch.vi. AttrCode:

```
1 - SUB ATTR CHANNEL SUBSWITCHES - Gets number of subswitches per logical channel (matrix crosspoint)
 2 - SUB_ATTR_X_ISO_SUBSWITCHES - Gets number of subswitches per logical X-isolator
 3 - SUB_ATTR_Y_ISO_SUBSWITCHES - Gets number of subswitches per logical Y-isolator
 4 - SUB_ATTR_X_LOOPTHRU_SUBSWITCHES - Gets number of subswitches per logical X-loopthru
 5 - SUB_ATTR_Y_LOOPTHRU_SUBSWITCHES - Gets number of subswitches per logical Y-loopthru
 0x100 - SUB_ATTR_NUM_X_SEGMENTS - Gets number of X-axis segments
 0x101 - SUB_ATTR_X_SEGMENT01_SIZE - Gets size of X-axis segment 1
 0x102 - SUB_ATTR_X_SEGMENT02_SIZE - Gets size of X-axis segment 2
 0x103 - SUB_ATTR_X_SEGMENT03_SIZE - Gets size of X-axis segment 3
 0x104 - SUB_ATTR_X_SEGMENT04_SIZE - Gets size of X-axis segment 4
 0x105 - SUB_ATTR_X_SEGMENT05_SIZE - Gets size of X-axis segment 5
 0x106 - SUB_ATTR_X_SEGMENT06_SIZE - Gets size of X-axis segment 6
 0x107 - SUB ATTR X SEGMENT07 SIZE - Gets size of X-axis segment 7
 0x108 - SUB ATTR X SEGMENT08 SIZE - Gets size of X-axis segment 8
 0x109 - SUB ATTR X SEGMENT09 SIZE - Gets size of X-axis segment 9
 0x10A - SUB_ATTR_X_SEGMENT10_SIZE - Gets size of X-axis segment 10
 0x10B - SUB_ATTR_X_SEGMENT11_SIZE - Gets size of X-axis segment 11
 0x10C - SUB_ATTR_X_SEGMENT12_SIZE - Gets size of X-axis segment 12
 0x200 - SUB_ATTR_NUM_Y_SEGMENTS - Gets number of Y-axis segments
 0x201 - SUB_ATTR_Y_SEGMENT01_SIZE - Gets size of y-axis segment 1
 0x202 - SUB_ATTR_Y_SEGMENT02_SIZE - Gets size of y-axis segment 2
     Output
                   PILPXI
Card num in
                               Card num out
                   Subs
     Subunit
                               Attribute Value
                   attr
                             error out
Attribute code
    error in •
error in The error in cluster can accept error information wired from VIs previously called. Use
```

this information to decide if any functionality should be bypassed in the event of errors from other VIs.

_	pic	kering
L	-	
	TFI	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abci	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U32	Subuni	t Number of subunit.
U321	Card n	um in Handle combining session handle and card handle.
TF		True = output subunit, input subunit
	 Attribute code AttrCode: 1 - SUB_ATTR_CHANNEL_SUBSWITCHES - Gets number of subswitches per logical channel (matrix crosspoint) 2 - SUB_ATTR_X_ISO_SUBSWITCHES - Gets number of subswitches per logical X-isolator 3 - SUB_ATTR_Y_ISO_SUBSWITCHES - Gets number of subswitches per logical Y-isolator 4 - SUB_ATTR_X_LOOPTHRU_SUBSWITCHES - Gets number of subswitches per logical X-loopthru 5 - SUB_ATTR_Y_LOOPTHRU_SUBSWITCHES - Gets number of subswitches per logical Y-loopthru 0x100 - SUB_ATTR_X_SEGMENTS - Gets number of X-axis segment 1 0x102 - SUB_ATTR_X_SEGMENT01_SIZE - Gets size of X-axis segment 2 0x103 - SUB_ATTR_X_SEGMENT03_SIZE - Gets size of X-axis segment 3 0x104 - SUB_ATTR_X_SEGMENT05_SIZE - Gets size of X-axis segment 4 0x105 - SUB_ATTR_X_SEGMENT05_SIZE - Gets size of X-axis segment 5 0x106 - SUB_ATTR_X_SEGMENT05_SIZE - Gets size of X-axis segment 6 0x107 - SUB_ATTR_X_SEGMENT06_SIZE - Gets size of X-axis segment 7 0x108 - SUB_ATTR_X_SEGMENT07_SIZE - Gets size of X-axis segment 7 0x108 - SUB_ATTR_X_SEGMENT07_SIZE - Gets size of X-axis segment 7 0x108 - SUB_ATTR_X_SEGMENT07_SIZE - Gets size of X-axis segment 7 0x108 - SUB_ATTR_X_SEGMENT09_SIZE - Gets size of X-axis segment 10 0x107 - SUB_ATTR_X_SEGMENT10_SIZE - Gets size of X-axis segment 10 0x108 - SUB_ATTR_X_SEGMENT10_SIZE - Gets size of X-axis segment 10 0x108 - SUB_ATTR_X_SEGMENT11_SIZE - Gets size of X-axis segment 10 0x104 - SUB_ATTR_X_SEGMENT12_SIZE - Gets size of Y-axis segment 10 0x102 - SUB_ATTR_Y_SEGMENT12_SIZE - Gets size of Y-axis segment 12 0x200 - SUB_ATTR_Y_SEGMENT01_SIZE - Gets size of y-axis segment 12 0x201 - SUB_ATTR_Y_SEGMENT01_SIZE - Gets size of y-axis segment 12 0x202 - SUB_ATTR_Y_SEGMENT02_SIZE - Gets size of y-axis segment 10 	

error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

Status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.



code The code input identifies the error or warning.



The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

abc

source The source string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Attribute Value Attribute value.



Card num out Handle combining session handle and card handle.

PILPXI Subunit Info.vi

Obtains a description of a sub-unit, as numeric values. Output sub-unit type codes are:

- 1 TYPE_SW (uncommitted switch)
- 2 TYPE_MUX (multiplexer single-channel)
- 3 TYPE_MUXM (multiplexer, multi-channel)
- 4 TYPE_MAT (matrix LF)
- 5 TYPE_MATR (matrix RF)
- 6 TYPE_DIG (digital outputs)
- 7 TYPE_RES (programmable resistor)
- 8 TYPE_ATTEN (programmable attenuator)
- 9 TYPE_PSUDC (DC power supply)

Input sub-unit type codes are:

1 - INPUT

Row and column values give the dimensions of the sub-unit. For all types other than matrices the column value contains the significant dimension: their row value is always '1'.

		Rows
Card num in ——	PILPXI	Card num out
Subunit – 🖓	Sub info	TypeNum
Output Subunit		error out
error in		Columns
		•

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TF

status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

code The **code** input identifies the error or warning.

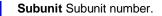
The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

abc

032

source The source string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.



TFI Output Subunit True = output subunit,



False = input subunit.



Card num in Card number

error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

FTF status

status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

- **Card num out** Card number
- **Rows** Row count.
- **Columns** Columns count

TypeNum Type number.

PILPXI Subunit Status.vi

Obtains the current status flags for the specified output sub-unit. Status bits associated with significant card-level conditions are also returned. Status bits are as follows:

0x80000000 - STAT NO CARD (no card with specifie	d number)
0x40000000 - STAT_WRONG_DRIVER (card requires	
0x20000000 - STAT_EEPROM_ERR (card EEPROM	
0x10000000 - STAT_DISABLED (card disabled)	
0x08000000 - STAT_NO_SUB (no sub-unit with speci	ied number)
0x04000000 - STAT_BUSY (sub-unit operations not c	
0x02000000 - STAT_HW_FAULT (card hardware defe	ct)
0x01000000 - STAT_PARITY_ERROR (PCIbus parity	error)
0x00800000 - STAT_PSU_INHIBITED (power supply	output is disabled - by software)
0x00400000 - STAT_PSU_SHUTDOWN (power suppl	y output is shutdown - due to overload)
0x00200000 - STAT_PSU_CURRENT_LIMIT (power s	supply is operating in current-limited mode)
0x00100000 - STAT_CORRUPTED (sub-unit logical s	ate is corrupted)
0x00000000 - STAT_OK (card functional and stable)	
Card num in PILPXI Card num out	
Output Subunit	
error in error out	



error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

٦	pick	kering
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U321	Card nu	u m in Card number
U321	Output	Subunit Output subunit.
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	p-up option Explain Error (or Explain Warning) gives more information about the error ed.
	F	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	Pabe	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
132		t Status Obtains the current status flags for the specified output sub-unit. Status bits ted with significant card-level conditions are also returned. Status bits are as follows:
	0x40 0x20 0x10 0x08 0x04 0x02 0x01 0x00 0x00 0x00 0x00 0x00 0x00	1000000 - STAT_NO_CARD (no card with specified number) 1000000 - STAT_WRONG_DRIVER (card requires newer driver) 1000000 - STAT_EEPROM_ERR (card EEPROM fault) 1000000 - STAT_DISABLED (card disabled) 1000000 - STAT_NO_SUB (no sub-unit with specified number) 1000000 - STAT_BUSY (sub-unit operations not completed) 1000000 - STAT_BUSY (sub-unit operations not completed) 1000000 - STAT_HW_FAULT (card hardware defect) 1000000 - STAT_PARITY_ERROR (PCIbus parity error) 1800000 - STAT_PSU_INHIBITED (power supply output is disabled - by software) 1400000 - STAT_PSU_SHUTDOWN (power supply output is shutdown - due to overload) 1200000 - STAT_PSU_CURRENT_LIMIT (power supply is operating in current-limited 1100000 - STAT_OK (card functional and stable)
032	Card nu	u m out Card number



	Subunit	
Obtains Type str	•	ption of a sub-unit, as a text string.
	Γ(<size>)</size>	- Digital inputs
	CH(<size< th=""><th></th></size<>	
	<size>)</size>	- Multiplexer, single-channel only
	/(<size>)</size>	
		mns>X <rows>) - Matrix, LF</rows>
		umns>X <rows>) - Matrix, RF</rows>
	AL(<size:< th=""><th></th></size:<>	
		of resistors in chain>) - Programmable resistor
		er of pads>) - Programmable attenuator
PSUD		- DC Power Supply
Card n		PILPXI Card num out
S	ubunit –	
Output S	ubunit	error out
	ror in	
		The error in cluster can accept error information wired from VIs previously called. Use
عصم	this info	rmation to decide if any functionality should be bypassed in the event of errors from other
	VIs.	
	The pop	-up option Explain Error (or Explain Warning) gives more information about the error
	displaye	
	0.0010.0	
	TFI	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no
		error or a warning.
		g.
		The pop-up option Explain Error (or Explain Warning) gives more information about the
		error displayed.
	132	code The code input identifies the error or warning.
		5
		The pop-up option Explain Error (or Explain Warning) gives more information about the
		error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the
		error displayed.
032	Subunit	t Subunit number.
TF		Subunit True = output subunit,
	False =	input subunit.
U32	Card nu	im in Card number
	error ou	It The error out cluster passes error or warning information out of a VI to be used by other
	VIs.	
		-up option Explain Error (or Explain Warning) gives more information about the error
	displaye	ed.
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no
		error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the
		error displayed.
	132	code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the page 59 of 75



error displayed.

Source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Type String containing type of subunit.

Eard num out Card number

PILPXI TC Get Voltage.vi

Obtains the voltage setting of a thermocouple channel in milivolts.
Input Handle
Output Handle

Output Subunit

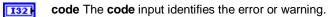
error in error out

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.



The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.



Output Subunit Subunit number.

Input Handle Handle combining session handle and card handle.

error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

Status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Source The **source** string describes the origin of the error or warning.



The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



Voltage Output setting, in miliovolts.

032

Output Handle Handle combining session handle and card handle.

PILPXI TC Set Voltage.vi

Sets the output voltage of a thermocouple channel. Value is in milivolts.

Card num in PILPXI Card num out Output Subunit voltage error out Voltage

error in

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TFI

status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

132 code The code input identifies the error or warning.

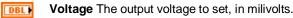
> The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

source The source string describes the origin of the error or warning. abc

> The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

U321

Output Subunit Subunit number.





Card num in Card number

error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TF

status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

source The source string describes the origin of the error or warning. abc



The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

032

Card num out Card number

PILPXI VI Tree.vi

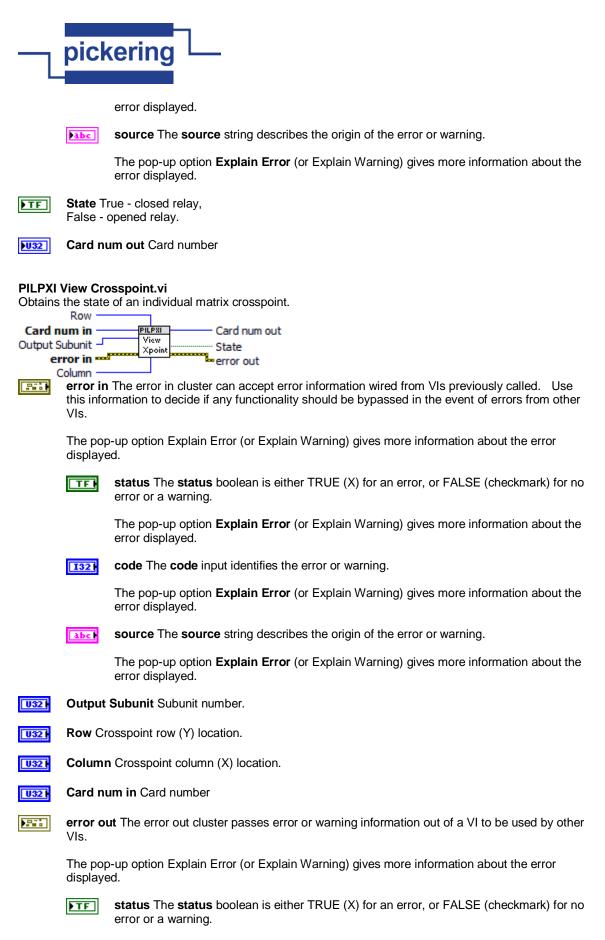
The VI Tree displays all the user-callable VIs of the instrument driver in an organized table.

PI	PLX
٧I	ഷം
	10 M
TR	EC C
	0.000

	View Bit	
Card n		e of an individual output.
	ubunit 🖵	View
	lumber —	Bit State
	ror in 🚥	
		The error in cluster can accept error information wired from VIs previously called. Use rmation to decide if any functionality should be bypassed in the event of errors from other
	The pop displaye	p-up option Explain Error (or Explain Warning) gives more information about the error ed.
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	1321	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abci	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U32	Output	Subunit Subunit number.
U321	Bit Nun	nber Bit number.
U321	Card nu	u m in Card number
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	b-up option Explain Error (or Explain Warning) gives more information about the error ed.
	F	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.



٦	pick	kering
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
F		rue - closed relay, opened relay.
U32	Card nu	um out Card number
Obtains Card n Output S Bit N	um in — ubunit - umber — ror in — error in	e of an individual output's mask. Card num out View Mask Bit Bit Card num out Card num out Card num out
	The pop displaye	o-up option Explain Error (or Explain Warning) gives more information about the error
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U321	Output	Subunit Subunit number.
U321	Bit Nun	nber Bit number.
U321	Card nu	um in Card number
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	p-up option Explain Error (or Explain Warning) gives more information about the error
	ETE	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no

Status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.



error displayed.

132 code The code input identifies the error or warning.

> The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

source The source string describes the origin of the error or warning. abc

> The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

TF

State True = masked, False = not masked

Card num out Card number 032

PILPXI View Mask Crosspoint.vi

Obtains the state of an individual matrix crosspoint's mask.

- Row Card num in PILPXI Card num out View mask Output Subunit State Xpoin error in 🔜 error out Column
- error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

abc

source The source string describes the origin of the error or warning.

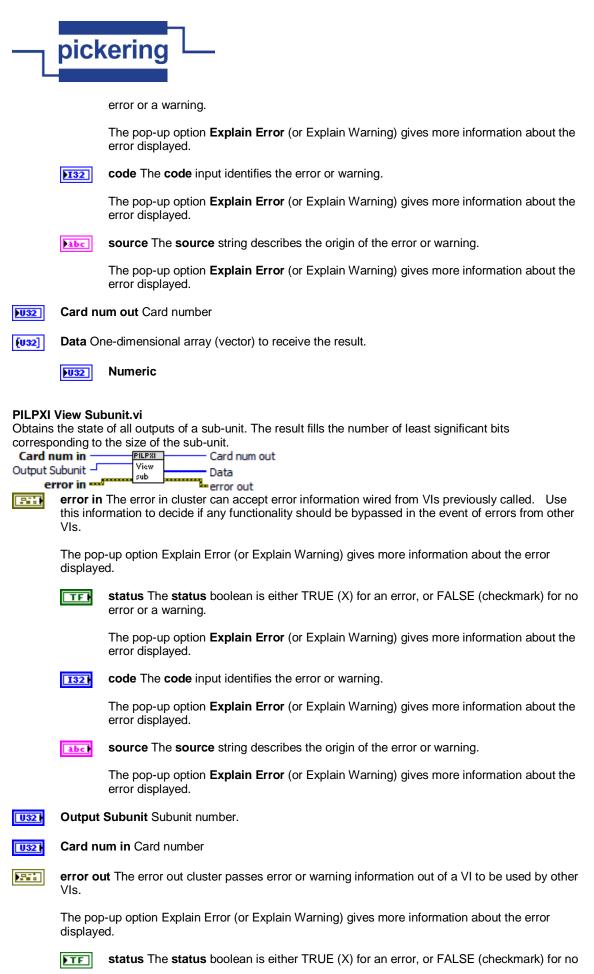
The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

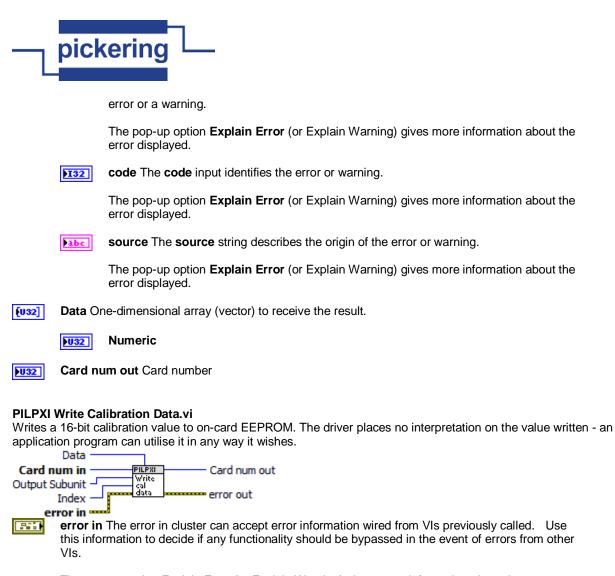
U32 | Output Subunit Subunit number.

- U32 Row Crosspoint row (Y) location.
- U32 **Column** Crosspoint column (X) location.
- U32 | Card num in Card number
- error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

_	pick	kering
	FL	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
F		rue = masked, not masked
032	Card nu	um out Card number
Obtains the size Card n Output S	of the su um in — ubunit – ror in — error in this info	ch mask of a sub-unit. The result fills the number of least significant bits corresponding to ib-unit.
	VIs. The pop displaye	o-up option Explain Error (or Explain Warning) gives more information about the error
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U32	Output	Subunit Subunit number.
U321	Card nu	um in Card number
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	p-up option Explain Error (or Explain Warning) gives more information about the error
) TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no

page 66 of 75





The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no TFI error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

132

code The code input identifies the error or warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

source The source string describes the origin of the error or warning. abc

- U32 Output Subunit Subunit number.
- Index Calibration value index. U321
- Data Value to be written. U16



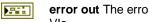
_	pick	cering
	Vis.	It The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	-up option Explain Error (or Explain Warning) gives more information about the error
	F	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
032	Card nu	Im out Card number
Card n Output S er	Data — Offset — um in — ubunit — Store — ror in — values — error in	re floating-point calibration values into on-card EEPROM. Card num out Write Card num out Write Card num out The error in cluster can accept error information wired from VIs previously called. Use rmation to decide if any functionality should be bypassed in the event of errors from other
	The pop displaye	-up option Explain Error (or Explain Warning) gives more information about the error
	TFI	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U321	Output	Subunit Subunit number.
U321	Card nu	Im in Card number
U32	Store V	alue indicating which store to access



- U32 | Offset the offset in the sub-unit's calibration store at which to start
- U32 | Num Values The number of values to be written

Data Array containing values to write [DBL]

> Num Values 2 The number of values to be written DBL



error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.



code The code input identifies the error or warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

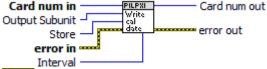
source The source string describes the origin of the error or warning. abc

> The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

032 Card num out Card number

PILPXI Write Calibration Date.vi

Writes a sub-unit's calibration date and interval into on-card EEPROM. Date information is obtained from the current system date.



error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

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status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

code The code input identifies the error or warning. 132

> The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



source The source string describes the origin of the error or warning.



The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

- Output Subunit Subunit number.
- Card num in Card number
- **Store** Value indicating which store to access
- **Interval** Calibration interval (in days)

error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

Status The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

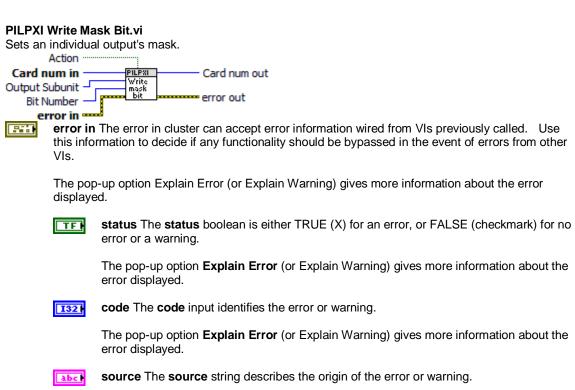
Code The **code** input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Source The **source** string describes the origin of the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Card num out Card number





The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.



Output Subunit Subunit number.



Bit Number Bit number.



Action True = mask, False = do not mask

Card num in Card number



error out The error out cluster passes error or warning information out of a VI to be used by other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.



code The code input identifies the error or warning.

The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Source The **source** string describes the origin of the error or warning.

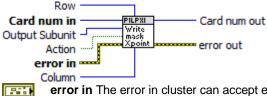
The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Card num out Card number

PILPXI Write Mask Crosspoint.vi

Mask or unmask a single matrix crosspoint.

Masking disables the corresponding switch for the PIPLX OpenClose Bit.vi, PIPLX OpenClose Crosspoint.vi and PIPLX Write Subunit.vi VIs. This facility can be used to guard against programming errors that could otherwise result in damage to matrix switches or external circuits.



error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

_	pic	kering
L		
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U321	Output	Subunit Subunit number.
U321	Row C	rosspoint row (Y) location.
U321	Colum	n Crosspoint column (X) location.
TF		True = mask, do not mask
U321	Card n	um in Card number
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
	The pop display	p-up option Explain Error (or Explain Warning) gives more information about the error ed.
	F	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
JU32	Card n	um out Card number

PILPXI Write Mask.vi

Sets a sub-unit's switch mask to the supplied bit-pattern. The number of least significant bits corresponding to the size of the sub-unit are written into the mask. A '1' bit in the mask disables the corresponding switch for the OpBit, OpCrosspoint, WriteSub VIs. This facility is particularly useful for matrix sub-units, where it can be used to guard against programming errors that could otherwise result in damage to matrix switches or external circuits.

Card num in PILPX Card num Output Subunit Write Data PILPX error out

error in 🚥

error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

一	pick	kering
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U32	Output	Subunit Subunit number.
U321	Card nu	u m in Card number
[032]	Data Or	ne-dimensional array (vector) containing the bit-pattern to be written.
	U32	Numeric
	error o VIs.	ut The error out cluster passes error or warning information out of a VI to be used by other
	The pop displaye	p-up option Explain Error (or Explain Warning) gives more information about the error ed.
	F	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

Card num out Card number

PILPXI Write Subunit.vi

Sets all outputs of a sub-unit to the supplied bit-pattern. The number of least significant bits corresponding to the size of the sub-unit are written.



error in The error in cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

٦	pic	kering
	TF	status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	132	code The code input identifies the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	abc	source The source string describes the origin of the error or warning.
		The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
U321	Output Subunit Subunit number.	
[032]	Data One-dimensional array (vector) containing the bit-pattern to be written.	
	U321	Numeric
U32	Card n	um in Card number
U32)		
	error o VIs.	um in Card number ut The error out cluster passes error or warning information out of a VI to be used by other p-up option Explain Error (or Explain Warning) gives more information about the error
	error o VIs. The pop	um in Card number ut The error out cluster passes error or warning information out of a VI to be used by other p-up option Explain Error (or Explain Warning) gives more information about the error
	error o VIs. The pop display	um in Card number ut The error out cluster passes error or warning information out of a VI to be used by other p-up option Explain Error (or Explain Warning) gives more information about the error ed. status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no
	error o VIs. The pop display	 um in Card number ut The error out cluster passes error or warning information out of a VI to be used by other p-up option Explain Error (or Explain Warning) gives more information about the error ed. status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option Explain Error (or Explain Warning) gives more information about the
	error o VIs. The pol displaye	 um in Card number ut The error out cluster passes error or warning information out of a VI to be used by other o-up option Explain Error (or Explain Warning) gives more information about the error ed. status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.
	error o VIs. The pol displaye	 um in Card number ut The error out cluster passes error or warning information out of a VI to be used by other o-up option Explain Error (or Explain Warning) gives more information about the error ed. status The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed. code The code input identifies the error or warning. The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

Card num out Card number