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Find the *Philips 335-2050-500* at our website: ***Click HERE***

A I/O Card



335-2050-500
Analog I/O Card

Features

- When configured for input mode, each channel acts as a 24-bit analog to digital converter (ADC)
- When configured for output mode, each channel has a 20-bit digital to analog converter (DAC) with output line drive buffering
- Each channel supports a fourth mode, whereby the channel is high impedance
- All outputs are updated simultaneously and all inputs are read back simultaneously

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Summary

Phillips' Analog I/O card is a daughtercard module that plugs into a Phillips ICX card. As such, the Analog I/O card is one of several plug-in modules that change the type and function of the ICX card in order to support different test interface.

The Analog I/O card supports up to 24 channels of differential (two-wire) I/O. Each channel can be configured as an input and output, or high impedance. A high impedance external loopback circuit supports testing of the I/O outside the high impedance switch. The Analog I/O card configuration identifier is 0x05.

Specifications

I/O Control:

Configuration:	24 two-wire analog voltage channels
Individual 20-bit DAC and 24-bit ADC per channel	
Input/output range:	+/-15.75V/+/-15.00V
Modes per channel:	analog output, analog input, analog I/O (self monitor), loopback, or high impedance (1MOhm)
I/O ESD Protection:	2kV per Method 3015.7

Analog Outputs:

DAC resolution:	20-bits
Output range:	+/-15.00V
Least significant bit:	40uV
Settling time:	2ms to 0.2%
Throughput rate:	>300 Hz, all output channels simultaneously updated
Accuracy:	0.1% of 30V span max, corrected error at 25 deg C, no load
Channel at reset:	High impedance
Output current:	25mA
Short circuit protection:	indefinite at 25 deg C

Analog Inputs:

ADC resolution:	24-bits
Input range:	+/-15.75V
Least Significant Bit:	2uV
Conversion rate:	>300 Hz, all input channels simultaneously read
Accuracy:	0.1% of 30V span max, corrected error at 25 deg C
Channel at reset:	High impedance
Input resistance:	98.7kOhms

Ordering Information

Hardware

335-2050-500

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