

PXI-6704X 32-Channel Analog Output Module

16-bit CPCI/PXI source module with voltage, current,
and digital I/O outputs

At a Glance

PXI-6704X is a 32-channel 16-bit CPCI/PXI analog output module for signal generation and control systems.

The module provides ± 10 V voltage outputs, optional current-output configurations, and general-purpose digital I/O support.

Independent channel power-on configuration, short-circuit protection, and VISA-based driver support make it suitable for automated test platforms.

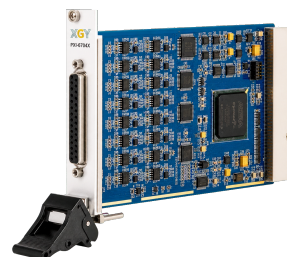


PXI-6704X 32-Channel Analog Output Module

Product Overview

PXI-6704X provides multi-channel analog source capability in a compact 3U PXI module.

Voltage, current, and digital I/O variants support flexible stimulus and control applications across laboratory and industrial systems.



Key Features

- **32 Analog Outputs**

Provides 32 analog output channels with 16-bit resolution.

- **+/-10 V Voltage Output**

Voltage output range supports +/-10 V with DC coupling.

- **Current Output Options**

Current output variants support 0.1 mA to 20 mA source outputs.

- **Digital I/O**

Sixteen digital I/O channels support TTL, LVTTTL, and LVCMOS logic levels.

- **Protected Outputs**

Voltage and current outputs include short-circuit protection.

- **Configurable Startup**

Each output channel can be configured independently for power-on state.

Technical Specifications

Analog Output	
Channels	32 channels
Resolution	16 bits
Voltage Output Range	+/-10 V
Coupling	DC
Output Impedance	0.1 ohm max
Output Current	+/-10 mA max
Voltage Accuracy	Reading x 0.05%; overview also specifies +/-1 mV at 25 deg C
Protection	Short-circuit protection
Power-On State	Each channel independently configurable
Current Output	
Current Range	0.1 mA to 20 mA
Output Type	Source
Current Accuracy	Reading x 0.05%
Protection	Short-circuit protection
Digital I/O	
Digital Channels	16 channels
Logic Levels	TTL / LVTTTL / LVCMOS
Power-On State	Input, high impedance
System	
Operating System	Windows 7 / Windows 8 / Windows 10 / Linux
Driver Support	VISA-based PNP driver
Form Factor	3U single-width, 4HP

Environmental Grades

Condition	Commercial C	Industrial I	Military J
Operating Temperature	0 to +50 deg C	-20 to +50 deg C	-40 to +50 deg C
Storage Temperature	-20 to +70 deg C	-40 to +70 deg C	-55 to +85 deg C
Humidity	95% @ 25 deg C, non-condensing	95% @ 25 deg C, non-condensing	95% @ 25 deg C, non-condensing

Temperature values are specified in degrees Celsius.

Ordering Information

Model	Description	Availability
Default Configuration		
PXI-6704	32-channel voltage output, +/-10 V, commercial grade	Standard
PXI-6704H	32-channel voltage output, +/-10 V, commercial grade	Optional
PXI-6704-B	16-channel current output, +/-10 V, commercial grade	Standard
PXI-6704-D	16 voltage channels plus 16 current output channels, commercial grade	Standard
PXI-6704-I	32-channel voltage output, +/-10 V, industrial grade	Optional
PXI-6704-J	32-channel voltage output, +/-10 V, military grade	Optional
3002019	SCSI100 core adapter cable, pin-to-pin, 1 m length	Standard
3002008	J30JA-74TJ cable, 50 cm, with wire labels	Optional

Default configuration is PXI-6704, 32-channel voltage output, +/-10 V, commercial grade.

Ordering format is PXI-6704X-XX. Temperature grades are C commercial default, I industrial, and J military. Configuration options include A for 32 voltage channels default, B for 16 current channels, and D for 16 voltage channels plus 16 current channels. Subtype is none by default or H for the naval-standard interface.

3002019 applies to PXI-6704. 3002008 applies to PXI-6704H.

Packing List

Item	Description	Quantity
32-Channel Analog Output Module	32-channel voltage output, +/-10 V, commercial grade	1 unit
Accessory Cable	SCSI100 core adapter cable, pin-to-pin, 1 m length	1 set
User Manual	Product use and maintenance information	1 copy
Certificate of Conformance	Factory inspection certificate	1 copy

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Specifications subject to change without notice. Per AS/NZS standards.