

PXI-6207 8-Channel Isolated Data Acquisition Module

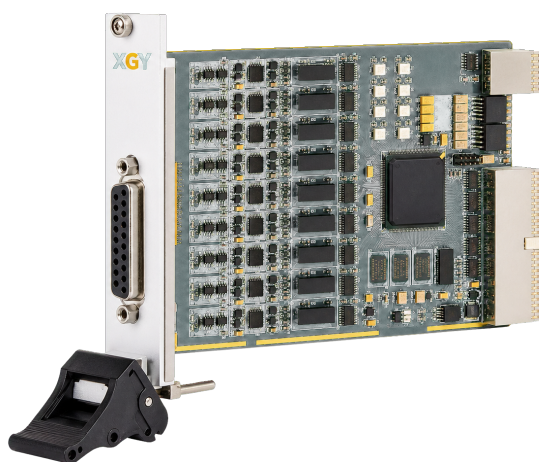
16-bit 100 kSa/s isolated parallel CPCI/PXI acquisition module with 20 kHz bandwidth

At a Glance

PXI-6207 is an 8-channel 16-bit isolated parallel data acquisition module for 3U CPCI/PXI systems.

The module supports up to 100 kSa/s sampling rate, 20 kHz signal bandwidth, programmable input ranges, and software-selectable AC or DC coupling.

Typical onboard data storage is 128 MB, with data transfer rates not less than 20 MB/s.

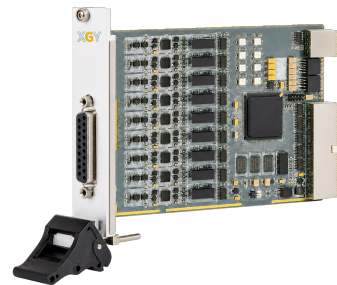


PXI-6207 8-Channel Isolated Data Acquisition Module

Product Overview

PXI-6207 provides eight isolated acquisition channels with parallel sampling in a compact 3U CPCI/PXI module.

The module is designed for measurement and control systems that require isolation, programmable input ranges, trigger support, and buffered data acquisition.



Key Features

- **Eight Isolated Channels**

Eight isolated input channels support multi-point acquisition in electrically demanding systems.

- **16-Bit, 100 kSa/s**

The module supports 16-bit acquisition with sampling rates up to 100 kSa/s.

- **Selectable Input Ranges**

Input ranges from ± 0.5 V to ± 50 V support a wide range of signals.

- **20 kHz Bandwidth**

The acquisition path provides 20 kHz signal bandwidth.

- **Trigger Support**

External TTL, channel-level, PXI, and software triggers are supported.

- **Buffered Storage**

Onboard data storage is 128 MB typical for continuous acquisition workflows.

Technical Specifications

Input and Acquisition	
Channel Count	8 isolated channels
Resolution	16 bits
Sampling Rate	100 kSa/s maximum, integer division, 1 Hz minimum
Acquisition Mode	Parallel acquisition
Input Range	+/-50 V
Range Grades	+/-0.5 V, +/-1 V, +/-2.5 V, +/-5 V, +/-10 V, +/-25 V, +/-50 V
Signal Bandwidth	20 kHz
Input Impedance	1 Mohm
Input Coupling	DC or AC, software selectable
Storage, Accuracy, and Trigger	
Data Storage	128 MB typical
Transfer Rate	>=20 MB/s
DC Accuracy	+/-0.4% FSR, average calculation
AC Accuracy	+/-0.6% FSR, RMS calculation, f < 5 kHz
Trigger Mode	External TTL, channel-level, PXI, and software trigger
Trigger Edge	Rising edge or falling edge
Trigger Count	Single trigger
Trigger Output	TTL front-panel output, 3.3 V / TTL level
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-6207	8-channel isolated parallel data acquisition module; 100 kSa; 16 bits; commercial grade	Standard
PXI-6207-I	8-channel isolated parallel data acquisition module; 100 kSa; 16 bits; industrial grade	Optional
PXI-6207-J	8-channel isolated parallel data acquisition module; 100 kSa; 16 bits; military grade	Optional
3002012	J30JA-37TJ cable, 50 cm length, with wire-number labels	Standard

Default configuration is PXI-6207, 8-channel isolated parallel data acquisition module, 100 kSa, 16 bits, commercial grade.

Ordering format is PXI-6207-X, where X selects the temperature grade: C for commercial grade, I for industrial grade, and J for military grade.

Packing List

Item	Description	Quantity
8-Channel Isolated DAQ Module	8 channels; 100 kSa; 16 bits; commercial grade	1 unit
Accessory Cable	J30JA-37TJ cable, 50 cm length, with wire-number labels	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.