

PXI-406X Digital Multimeter Module

3U CPCI/PXI multimeter module for voltage, current, resistance, frequency, diode, and capacitance measurements

At a Glance

PXI-406X is a digital multimeter module family based on a 3U CPCI/PXI bus architecture for modular automated test systems.

The module family supports AC/DC current, AC/DC voltage, two-wire and four-wire resistance, frequency, diode, and capacitance measurement functions.

Commercial, industrial, and military temperature grades are available, with Windows and Linux support through a VISA-based PNP driver.



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Product Overview

PXI-406X digital multimeter modules are designed for PXI and CPCI measurement platforms that need compact electrical measurement capability in a 3U single-width module.

The family covers common automated-test measurements, including voltage, current, resistance, frequency, diode, and capacitance measurement.



Product Detail View

A detail view shows the PXI-406X module assembly and connector-side mechanical arrangement for integration planning.





Key Features

- **Multifunction Measurement**

Supports AC/DC current, AC/DC voltage, resistance, frequency, diode, and capacitance functions.

- **PXI/CPCI Architecture**

Designed around a 3U CPCI/PXI bus module format for chassis-based instrumentation.

- **Voltage and Current Coverage**

Voltage ranges extend to ± 350 VDC and 350 Vrms, with current measurement from 0 to 3 A.

- **Resistance and Capacitance**

Resistance measurement covers 0 to 100 Mohm, while capacitance coverage spans 0.3 nF to 1000 nF.

- **Driver Support**

VISA-based PNP driver support is provided for Windows and Linux systems.

- **Grade Options**

Commercial, industrial, and military temperature-grade ordering options support different deployment needs.

Core Specifications

Measurement Functions	
Current Range	0 to 3 A
Voltage Range	+/-350 VDC; 0 to 350 Vrms
Resistance Range	0 to 100 Mohm
Frequency Range	3 to 300 kHz
Diode Measurement	Supported
Capacitance Range	0.3 nF to 1000 nF; capacitance value can be customized
Capacitance Accuracy	+/-1% @ 25 deg C +/-10 deg C
System and Mechanical	
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-4061	5 1/2 digit multimeter module; 300 V range; commercial grade	Standard
PXI-4062	5 1/2 digit multimeter module; 350 V range; commercial grade	Standard
PXI-4063	Capacitance measurement module; 0.3 nF to 1000 nF range; commercial grade	Standard
PXI-406X-I	Digital multimeter module; industrial grade	Optional
PXI-406X-J	Digital multimeter module; military grade	Optional
3002014	Multimeter test leads; one red and one black lead	Standard

Default configuration is PXI-4061, 5 1/2 digit multimeter module, 300 V range, commercial grade.

Ordering format is PXI-406X-X, where the temperature grade is C for commercial grade, I for industrial grade, or J for military grade.

The subtype can be 1 for 5 1/2 digit 300 V, 2 for 5 1/2 digit 350 V, or 3 for capacitance measurement.

Packing List

Item	Description	Quantity
Digital Multimeter Module	5 1/2 digit multimeter module; 300 V range; commercial grade	1 unit
Accessory Cable	Multimeter test leads; one red and one black lead	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.