

PXIe-4065 Digital Multimeter Module

6.5-digit PXIe DMM for voltage, current, resistance, frequency, and period measurement

At a Glance

PXIe-4065 is a 6.5-digit digital multimeter module for PXIe-based automated measurement systems.

It supports DC voltage, AC voltage RMS, DC current, AC current RMS, 2-wire and 4-wire resistance, frequency, and period measurement.

The module provides up to ± 300 V voltage measurement, 3 A current measurement, 100 Mohm resistance range, and programmable delay control.



PXIe-4065 Digital Multimeter Module

Product Overview

PXIe-4065 brings DMM capability into PXIe instrumentation systems for aerospace, defense, automation, and research applications.

Programmable timing, broad measurement modes, and VISA-based driver support make the module suitable for automated test sequencing.



Key Features

- **6.5-Digit DMM**

Provides 6.5-digit digital multimeter measurement capability.

- **Multiple Modes**

Measures voltage, current, resistance, frequency, and period.

- **300 V Range**

Maximum voltage measurement range is +/-300 V.

- **3 A Current**

Maximum current measurement range is 3 A.

- **100 Mohm Resistance**

Resistance measurement supports up to 100 Mohm full range.

- **Programmable Delay**

Delay can be programmed with 1 us resolution from 0 to 2147.483648 s.

Technical Specifications

Measurement	
Resolution Class	6.5 digits
Measurement Modes	DC voltage, AC voltage RMS, DC current, AC current RMS, 2-wire resistance, 4-wire resistance, frequency, period
Delay Range	Programmable delay with 1 us resolution; 0 to 2147.483648 s; automatic delay by default
Maximum Voltage	+/-300 V
Maximum Current	3 A
Maximum Resistance	100 Mohm full range
Frequency Range	3 Hz to 1.5 MHz
Period Range	666.667 ns to 0.3333 s
Resolution	
DC Voltage Resolution	10 nV, 100 nV, 1 uV, 10 uV, 10 uV
DC Current Resolution	100 pA, 1 nA, 10 nA, 100 nA, 100 nA
AC Current Resolution	1 nA, 10 nA, 100 nA, 1 uA
Resistance Resolution	10 uohm, 100 uohm, 1 mohm, 10 mohm, 100 mohm, 1 ohm, 10 ohm
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		
PXIe-4065	6.5-digit digital multimeter module, 300 V range, commercial grade	Standard
PXIe-4065-I	Digital multimeter module, commercial grade	Optional
PXIe-4065-J	Digital multimeter module, military grade	Optional
3002014	Multimeter test leads, one red and one black	Standard

Default configuration is PXIe-4065, 6.5-digit digital multimeter module, 300 V range, commercial grade.

Ordering format is PXIe-4065-X, where X selects the temperature grade: C for commercial default, I for industrial, and J for military.

Packing List

Item	Description	Quantity
Digital Multimeter Module	6.5-digit digital multimeter module, 300 V range, commercial grade	1 unit
Accessory Cable	Multimeter test leads, one red and one black	1 set
User Manual	Product use and maintenance information	1 copy
Certificate of Conformance	Factory inspection certificate	1 copy

XGY Pty Ltd

Sydney Engineering Centre

Email: info@xgytek.com | Web: www.xgytek.com

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