
NI-9469

Specifications

2024-08-26



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Definitions

Warranted specifications describe the performance of a model under stated operating conditions and are covered by the model warranty.

Characteristics describe values that are relevant to the use of the model under stated operating conditions but are not covered by the model warranty.

- **Typical** specifications describe the performance met by a majority of models.
- **Nominal** specifications describe an attribute that is based on design, conformance testing, or supplemental testing.

Specifications are **Typical** unless otherwise noted.

Related information:

- [Software Support for CompactRIO, CompactDAQ, Single-Board RIO, R Series, and EtherCAT](#)

Conditions

Specifications are valid for the range -40 °C to 70 °C unless otherwise noted.

I/O Characteristics

Front panel connectors	Shielded RJ45 receptacle
Front panel indicators	4 green LEDs

Number of ports	3 (Port 0, 1, and 2)
Number of input/output signals	4 (Line 0, 1, 2, and 3) per port, 12 total
Signal type	Differential
Maximum simultaneous outputs	8
Number of I/O triggers to backplane	4 (Trig 0, 1, 2, and 3)
Clock generation (DDS)	
Frequency	12.8 MHz or 13.1072 MHz
Accuracy	±3.5 ppm typical

Cable

Type ¹	CAT 5e (Shielded Twisted Pair) (straight-through)
Maximum propagation delay ²	4.98 ns/m
Maximum length	100 m

1. Refer to the ***I/O Characteristics*** section for more information.
2. As specified for CAT 5e in TIA/EIA-568 Standard.

Safety Voltages

Isolation	
Channel-to-channel	None
Channel-to-earth ground	None

Environmental Characteristics

Temperature	
Operating	-40 °C to 70 °C
Storage	-40 °C to 85 °C
Humidity	
Operating	10% RH to 90% RH, noncondensing
Storage	5% RH to 95% RH, noncondensing
Ingress protection	IP40
Pollution Degree	2
Maximum altitude	2,000 m
Shock and Vibration	
Operating vibration	

Random	5 g RMS, 10 Hz to 500 Hz
Sinusoidal	5 g, 10 Hz to 500 Hz
Operating shock	30 g, 11 ms half sine; 50 g, 3 ms half sine; 18 shocks at 6 orientations

To meet these shock and vibration specifications, you must panel mount the system.

Power Requirements

Power consumption from chassis	
Active mode	1 W maximum
Sleep mode	25 μ W
Thermal dissipation (at 70 °C)	
Active mode	1 W maximum
Sleep mode	25 μ W

Physical Characteristics

Dimensions	Visit ni.com/dimensions and search by module number.
Weight	148 g (5.2 oz)