SPECIFICATIONS

MT PXIe-X605

32 RTD, 15 Bit, 50S/s, PT100

This document contains the specifications for MT PXIe-X605.Specifications are typical at 25°C unless otherwise noted.

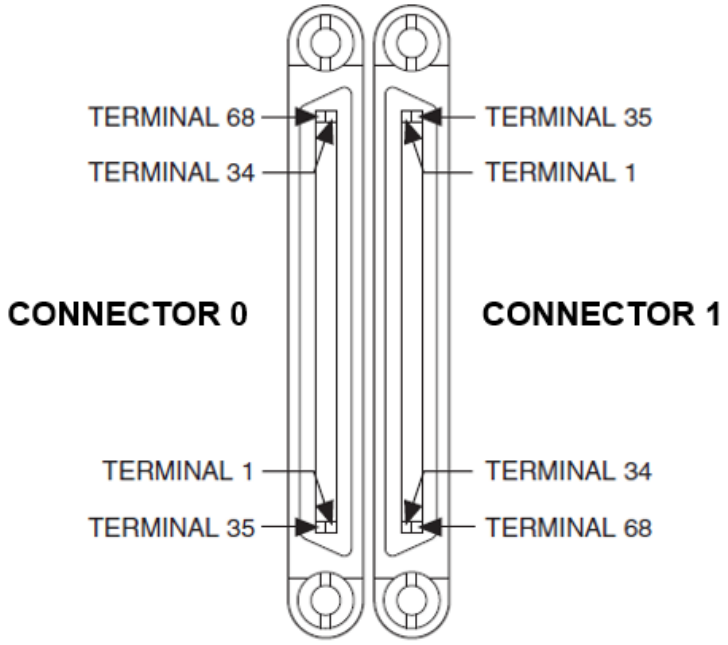
Caution Using the MT PXIe-X605 in a manner not described in this document may impair the protection the MT PXIe-X605 provides.

MANGOTREE

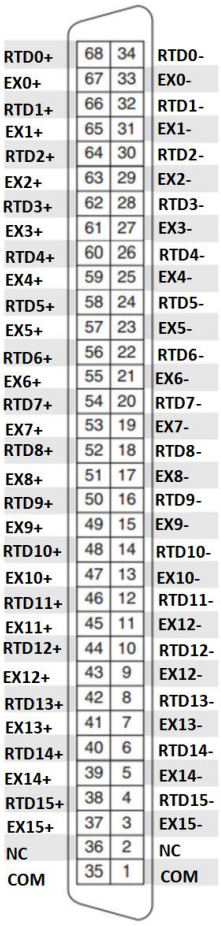
Input Characteristics

Number of channels	32 analog input channels
ADC resolution	15 bits
Type of ADC	Delta-Sigma
Measurement temperature rage	-200°C to +850°C
Total Accuracy	0.5°C (0.05% of Full Scale)
Common-Mode Rejection	90 dB
50/60 Hz Noise Rejection	82 dB
Input protection	±45V
Input noise	150 uV RMS

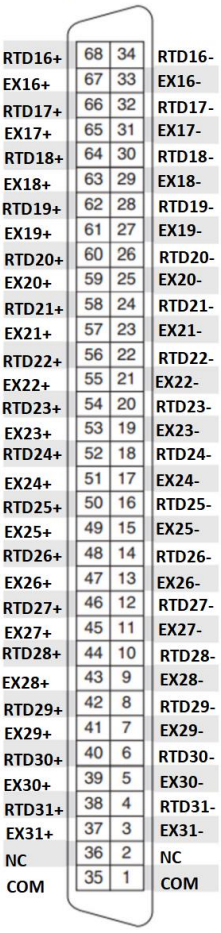
Pinouts



CONNECTOR 0



CONNECTOR 1



Power Requirements

Power consumption from chassis	517 mW maximum
Thermal dissipation (at 70 °C)	1480mW maximum

Maximum Power Requirements

Power requirements are dependent on the digital output loads and configuration of the LabVIEW FPGA VI used in your application.

+3.3 V	3 A
+12 V	2 A

Safety Voltages

This product is designed to meet the requirements of the following electrical equipment safety standards for measurement, control, and laboratory use:

- IEC 61010-1, EN 61010-1
- UL 61010-1, CSA C22.2 No. 61010-1

CE Compliance CE

This product meets the essential requirements of applicable European Directives, as follows:

- 2014/35/EU; Low-Voltage Directive (safety)
- 2014/30/EU; Electromagnetic Compatibility Directive (EMC)
- 2014/34/EU; Potentially Explosive Atmospheres (ATEX)

Shock and Vibration

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

Operating vibration	
Random (IEC 60068-2-64)	5 g_{rms}, 10 Hz to 500 Hz
Sinusoidal (IEC 60068-2-6)	5 g, 10 Hz to 500 Hz
Operating shock (IEC 60068-2-27)	30 g, 11 ms half sine; 50 g, 3 ms half sine; 18 shocks at 6 orientations

Environmental

Refer to the manual for the chassis you are using for more information about meeting these specifications.

Operating temperature (IEC 60068-2-1, IEC 60068-2-2)	-40 °C to 70 °C
Storage temperature (IEC 60068-2-1, IEC 60068-2-2)	-40 °C to 85 °C
Ingress protection	IP40
Operating humidity (IEC 60068-2-78)	10% RH to 90% RH, noncondensing Storage
humidity (IEC 60068-2-78)	5% RH to 95% RH, noncondensing Pollution
Degree	2
Maximum altitude	4,000 m

Indoor use only.