

DataSheet

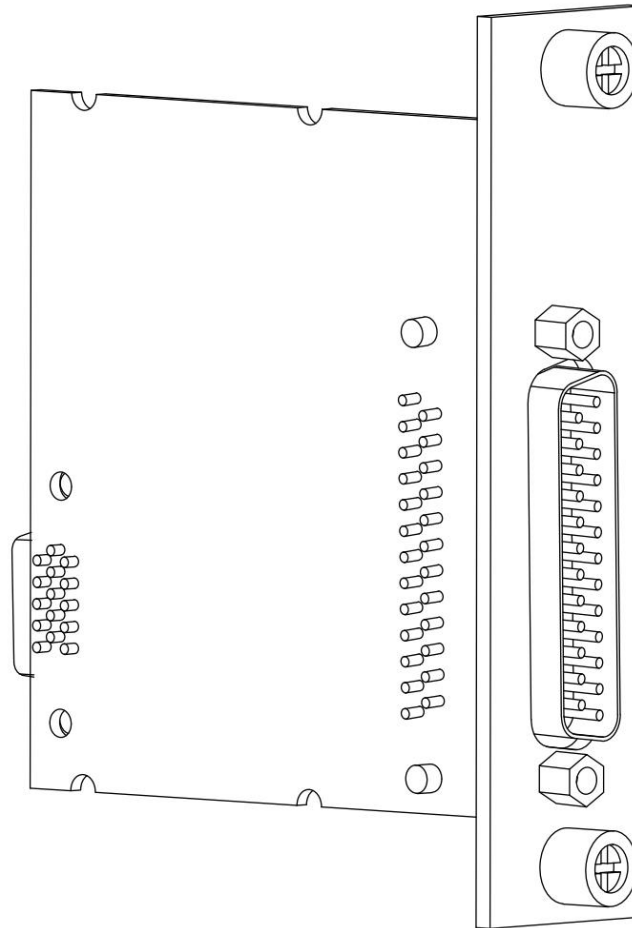
MT-E792

2-Port I2C Interface Module

This document contains the specifications for MT-E792. Specifications are typical at 25°C unless otherwise noted.



Caution Using the MT-E792 in a manner not described in this document may impair the protection the MT-E792 provides.

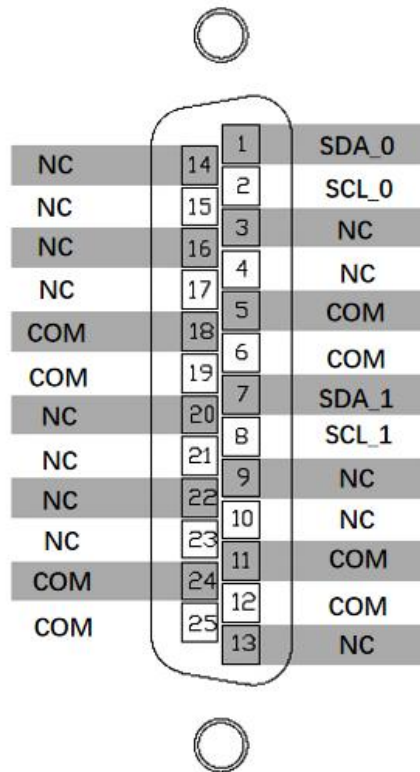


The MT-E792 is a I2C interface module for RobustRIO and FlexDAQ systems. You can use the MT -E792 to connect to two I2C devices. Using MT LabVIEW FPGA API, you can access the two ports directly from the RobustRIO FPGA to achieve flexibility in communicating with SPI devices.

MT-E792 Connectivity

Pin definition of DSUB connector and Spring Terminal connector.

DSUB



MT-E792 Hardware Overview

The MT E792 has two independent I2C interface that are isolated from the other modules in the system.

MT-E792 Specifications

The following specifications are typical for the range -40 °C to 70 °C unless otherwise noted.

I2C SCL	Output
I2C SDA	Inout
Supported clock rates	\leq 3.4MHz
Absolute voltage range	-0.5V to +5.5V with respect to COM

Power Requirements

Power consumption from chassis	500 mW max
Thermal dissipation (at 70 °C)	1500 mW max

Safety Voltages

Connect only voltages that are within the following limits:

Port-to-earth ground

Continuous	60 VDC, Measurement Category I up to 5,000 m in altitude
Withstand up to 2,000 m	1,000 Vrms, verified by a 5 s dielectric withstand test
Withstand up to 5,000 m	500 Vrms, verified by a 5 s dielectric withstand test

Measurement Category I is for measurements performed on circuits not directly connected to the electrical distribution system referred to as MAINS voltage. MAINS is a hazardous live electrical supply system that powers equipment. This category is for measurements of voltages from specially protected secondary circuits. Such voltage measurements include signal levels, special equipment, limited-energy parts of equipment, circuits powered by regulated low-voltage sources, and electronics.

CE Compliance

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	-40 °C to 70 °C (IEC 60068-2-1, IEC 60068-2-2)
Storage temperature	-40 °C to 85 °C (IEC 60068-2-1, IEC 60068-2-2)
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	5000 m

Indoor use only.

Support

MT-RIO上手指南:

<http://server.mangotree.cn:9000/WebFile/Downloads/上手指南/MT-RIO/>



RIO上手指南

MT-RIO视频教程:

<http://server.mangotree.cn:9000/WebFile/Downloads/视频教程/MT-RIO/>



RIO视频教程

MT-Master上手指南:

<http://server.mangotree.cn:9000/WebFile/Downloads/上手指南/MT-Master/>



Master上手指南

MT-Master视频教程:

<http://server.mangotree.cn:9000/WebFile/Downloads/视频教程/MT-Master/>



Master视频教程

Dimensions:(mm)

