

DataSheet

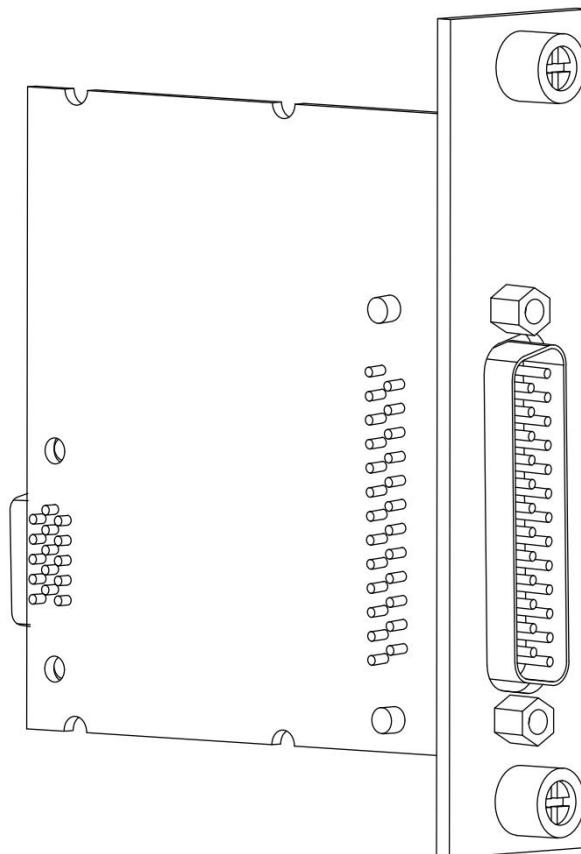
MT E791

4-Port, RS232 Serial Module

This document contains the specifications for MT-E791. Specifications are typical at 25°C unless otherwise noted.

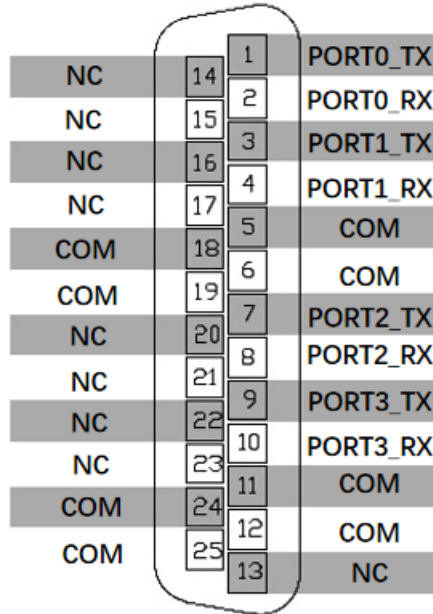


Caution Using the MT-E791 in a manner not described in this document may impair the protection the MT-E791 provides.



MT E791 Connectivity

Pin definition of DSUB connector and Spring Terminal connector.



MT E791 Hardware Overview

The MT E791 has four independent RS232 ports that are isolated from the other modules in the system. Each port is fully compatible with the ANSI/EIA/TIA-232 standard.

MT E791 Specifications

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

Maximum baud rate	230.4 kbps
Maximum RS232 Receive signal continuous Voltage	± 8 V
Data line ESD protection	± 15kV (human body model)

Power Requirements

Power consumption from chassis	0.5 W max
Thermal dissipation (at 70 °C)	1.5 W max

Safety Voltages

Connect only voltages that are within the following limits:

RS232 Receive Signal-to-COM	$\pm 25V$ max, Measurement Category I
RS232 Transmit Signal-to-COM	$\pm 13.2V$ max, Measurement Category I

Isolation Voltages

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	
For MT-E721 with DSUB	5,000 m

Indoor use only.

Support

MT-RIO上手指南:

<http://server.mangotree.cn:9900/WebFile/Downloads/上手指南/MT-RIO/>



RIO上手指南

MT-RIO视频教程:

<http://server.mangotree.cn:9900/WebFile/Downloads/视频教程/MT-RIO/>



RIO视频教程

MT-Master上手指南:

<http://server.mangotree.cn:9900/WebFile/Downloads/上手指南/MT-Master/>



Master上手指南

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Master视频教程

Dimensions:(mm)

