DataSheet

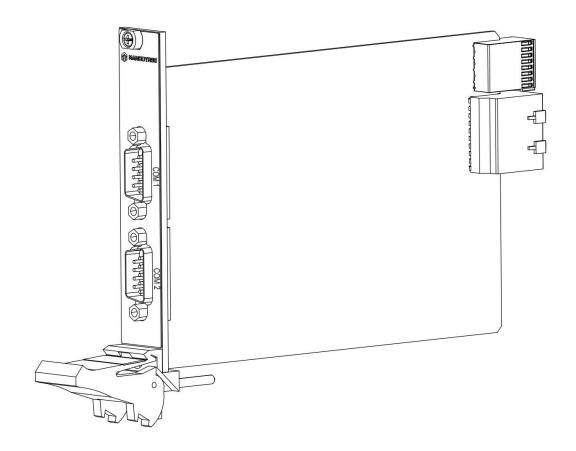
MT-X312

2-Port, RS232 Serial Module

This document contains the specifications for MT-X312. Specifications are typical at 25°C unless otherwise noted.



Caution Using the MT-X312 in a manner not described in this document may impair the protection the MT-X312 provides.





MT-X312 Connectivity

Pin assignments for CAN1 and CAN2.

Connector	Pin	Signal
6 7 8 9	1	NC
	2	RXD
	3	TXD
	4	NC
	5	COM
	6	NC
	7	NC
	8	NC
	9	NC

Hardware Overview

The MT-X312 has two 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.

Characteristics

The following specifications are typical for the range -40 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ unless otherwise noted.

Maximum baud rate 230.4kbps

Maixmum RS232 Receive signal continuous

Voltage $\pm 8 \text{ V}$

Data line ESD protection ± 15 kV (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	±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	5,000 m

Indoor use only.

Config文本

MT-DAQ设备的开发和使用依赖于Config配置文本,只有正确配置该文本,才能保证设备 的正常运行。不同型号的设备或板卡对应的配置参数是不同的。Python、LabVIEW和C#三种 编程语言的Config配置文本完全相同。

通用Config配置文本通过MT-Master软件主页导出获得,用户可以根据实际设备或板卡的 参数对配置文本进行修改配置,或者按照文本默认参数配置运行。

Config配置文本中的各项参数含义及其具体配置可以参考MT-DAQ上手指南,指南链接附 于下文Support板块。

使用MT产品过程中如有任何疑问,可以通过访问官网: http://www.mangotree.cn联系专业 客服咨询。



Support

MT-Master上手指南:

https://server.mangotree.cn:9900/WebFile/Downloads/上手指南/MT-Master/



Master上手指南

MT-Master视频教程:

https://server.mangotree.cn:9900/WebFile/Downloads/视频教程/MT-Master/



Master视频教程

MT-DAQ上手指南:

https://server.mangotree.cn:9900/WebFile/Downloads/上手指南/MT-DAQ/



DAQ上手指南

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https://server.mangotree.cn:9900/WebFile/Downloads/视频教程/MT-DAQ/



DAQ视频教程

Dimensions:(mm)

