

DataSheet

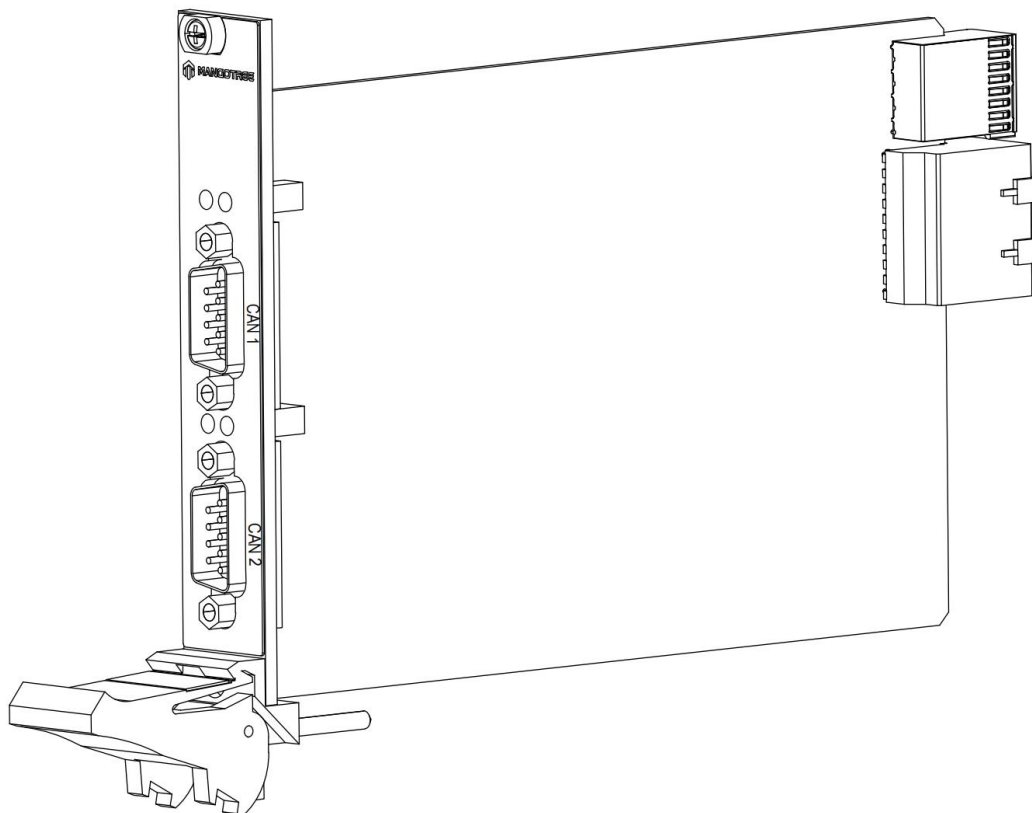
MT-X322

2-Port, High-Speed CAN FD Module

This document contains the specifications for MT-X322. Specifications are typical at 25°C unless otherwise noted.

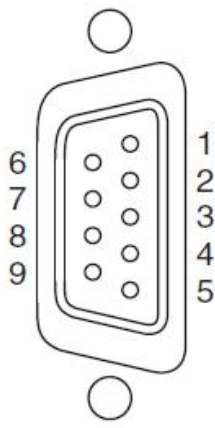


Caution Using the MT-X322 in a manner not described in this document may impair the protection the MT-X322 provides.



MT-X322 Connectivity

Pin assignments for CAN1 and CAN2.

Connector	Pin	Signal
	1	NC
	2	CAN_L
	3	COM
	4	NC
	5	SHLD
	6	COM
	7	CAN_H
	8	NC
	9	NC

Hardware Overview

MT-X322 has two 9-pin male D-Sub connectors that provide connections to a CAN bus. Each port on the MT-X322 has pins for CAN_H and CAN_L, to which you connect the CAN bus signals.

These signals should be connected using twisted-pair cable.

Characteristics

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

Maximum baud rate	8 Mbps
CAN_H, CAN_L bus lines voltage	-27VDC to +40 VDC
CAN FD controller	mixed CAN 2.0B and CAN FD mode
High-Speed CAN FD transceiver	ISO/DIS-11898-2:2015 standard

Power Requirements

Power consumption from chassis	625 mW max
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Thermal dissipation (at 70 °C)	1 W max
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Safety Voltages

Connect only voltages that are within the following limits:

Port-to-COM	-27 to +40 VDC max, Measurement Category I
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Isolation Voltages

Port-to-earth ground

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



MangoTree官网

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

MT-DAQ视频教程:

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DAQ视频教程

Dimensions:(mm)

