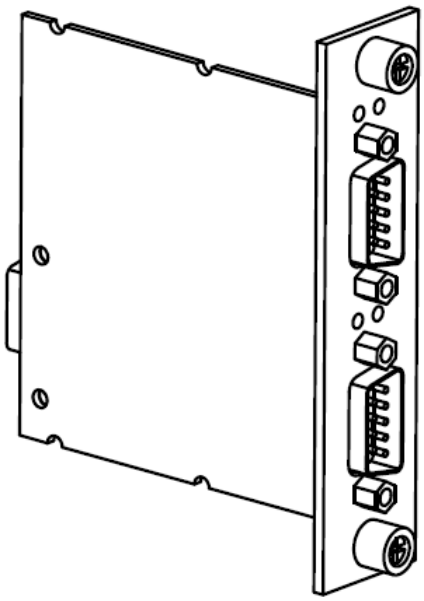
DATASHEET

MT E794

2-Port, High-Speed CAN Module



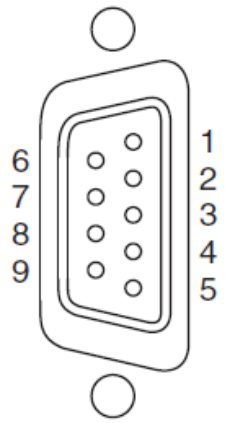
- Two 9-pin male D-Sub connectors
- -40 ℃ to 70 ℃ operating;

The MT E794 has two full-featured, independent CAN ports that are isolated from each other, and from the the other modules in the system.Each poet of MT E794 has a CAN controller that is both CAN 2.0A-compatible and CAN 2.0B-compatible. Each port also has a High-Speed CAN transceiver that is fully compatible with the ISO 11898 standard and supports baud rates up to 1 Mbps.

MANGOTREE

MT E794 Connectivity

Pin assignments for CAN0 and CAN1.

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

MT E794 Hardware Overview

The MT E794 has two 9-pin male D-Sub connectors that provide connections to a CAN bus. Each port on the MT E794 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.

MT E794 Specifications

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

Maximum baud rate	1 Mbps
CAN_H, CAN_L bus lines voltage	-27 to +40 VDC

Power Requirements

Power consumption from chassis	625 mW max
Thermal dissipation (at 70 ℃)	1 W max

Safety Voltages

Connect only voltages that are within the following limits:

Port-to-COM	-27 to +40 VDC 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 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 ℃ to 70 ℃
Storage temperature (IEC 60068-2-1, IEC 60068-2-2)	-40 ℃ to 85 ℃
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.