

Ethernet Ethernet Controller 100M-1



OVERVIEW

The Ethernet Controller 100M-1 is an acquisition station specifically designed to provide resources needed in the Automotive test field. It offers 100Base-T1 and digital I/Os, with embedded handling of the test sequencing and results logging to an external computer or an internal SD Card. The user has the option to use the Ethernet TCP, USB-C or RS-232 as a communication interface to set the configuration of the channels and get the measurement data. In addition, The Ethernet Controller 100M-1 is able to run in a standalone mode with the built in SD Card.

KEY FEATURES

- Real-Time embedded sequencer and controller of resources.
- Offers 2 100Base-T1 Ethernet channels, 6 Digital Inputs and 6 Digital Outputs.
- Ethernet TCP, USB-C and RS-232 communication interfaces.
- Built in SD Card to store the configurations and data acquisitions.
- Ready to use C# and LabVIEW APIs. Real-Time trigger on resources support.

DIMENSION

L*W*H = 128mm*115mm*28mm

OPERATING TEMPERATURE

-20 °C ~ +60 °C

POWER REQUIREMENT

DC power supply:
24VDC, 40 mA

DETAILED SPECIFICATIONS:

DC Input	Value	Unit
Maximum POWER	40	Watts
Voltage Range	24 Volts DC	V
Maximum Voltage between VBAT and GROUND	35 Volts	V
Accuracy	±0.5	%

Digital Inputs	Value	Unit
Channel Number	6	
Input Impedance	100K	Ω
Input Voltage Range	-60V to +60V	V
Adjustable Threshold	-10V to +20V	V
Threshold resolution	3m	V
Hysteresis	17m	V

Digital Output	Value	Unit
Channel Number	6	
On resistance	60m	Ω
Off leakage current	75u	A
Maximum Voltage	35	V
Maximum Current	2	A

AUTOMOTIVE ETHERNET INTERFACE Compliant with IEEE 802.3bw (100BASE-T1) Physical Layer.

ENVIRONMENTAL

The Ethernet Controller 100M-1 is intended for indoor use only but may be used outdoors if installed in a suitable enclosure. Refer to the manual for more information about meeting these specifications.

Operating temperature	10 ~ 35
Storage temperature	-40°C--+85°C
Ingress protection (IP code)	None
Operating humidity	10-90% RH non condensing
Storage humidity	5-95% RH non condensing

SUPPORT AND SERVICES

Calibration ART logics measurement hardware is calibrated to ensure measurement accuracy and verify that the device meets its published specifications. To ensure the ongoing accuracy of the measurement hardware, ART logics offers basic or detailed recalibration service.



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