# CAN Ethernet Tool-6FD

## OVERVIEW

The CAN Ethernet Tool-6FD is an acquisition station specifically designed to provide resources needed in the Automotive test field. It offers CAN FD,, 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 CAN Ethernet Tool-6FD 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 6 CAN FD channels, 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 | Val ue | 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 | Val ue | 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 | Val ue | Unit |
|---|---|---|
| Channel Number | 6 | |
| On resistance | 60m | Ω |
| Off leakage current | 75u | A |
| Maximum Voltage | 35 | V |
| Maximum Current | 2 | A |

**CAN FD INTERFACE** Compliant with CAN ISO11898-1 Data and Physical Layer Compliant ISO11898-1 Transport Protocol Layer.

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

## ENVIRONMENTAL

The CAN Ethernet Tool-6FD 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℃--+85℃** |
| **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.

**ART logics**
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