

# CAN Ethernet BUS Data Logger -6FD



## OVERVIEW

The CAN Ethernet BUS Data Logger -6FD is a data acquisition device specifically designed for automotive testing applications, providing the necessary resources. The device integrates 6/12/18/24 channels of CAN FD, 2/4/6/8 channels of LIN, 1 to 6 channels of 100/1000M Base-T1 Ethernet, and digital I/O. It features built-in test sequence control and result recording functions, capable of saving data to an external hard drive or internal SD card. Users can configure channels and retrieve measurement data via Ethernet TCP, USB-C, or RS-232 interfaces. Additionally, the CAN Ethernet Tool-6FD can operate independently with the support of the built-in SD card.

### DIMENSION

L\*W\*H =  
382mm\*240mm\*110mm

### KEY FEATURES

- Real-time embedded sequencer and resource controller.
- 6 /12/18/24 channels CAN FD.
- 2/4/6/8 channels LIN.
- 1~6 channels 100/1000M Base-T1 Ethernet.
- 6 channels Digital Input, 6 channels Digital Output.
- 2/4/6 Video Capture.
- Ethernet TCP, USB-C, RS-232 communication interfaces.
- Built-in SD card for storing configuration and acquired data.
- Ready-to-use C# and LabVIEW API.
- Support for real-time triggering of resources.

### Operating Temperature

-20 °C ~ +60 °C

### Power Requirements

DC Power Supply: 24VDC,  
40mA

## SPECIFICATIONS

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

Digital Input	Value	Unit
Number of Channels	6	
Input Impedance	100K	Ω
Input Voltage Range	-60 to +60	V
Adjustable Threshold	-10 to +20	V
Threshold Resolution	3	mV
Hysteresis	17	mV

Digital Output	Value	Unit
Number of Channels	6	
On Resistance	60	m Ω
Off-state Leakage Current	75	u A
Maximum Voltage	35	V
Maximum Current	2	A

### CAN FD INTERFACE

Compliant with CAN ISO11898-1 Data Link Layer and Physical Layer; Compliant with ISO11898-1 Transport Protocol Layer

### AUTOMOTIVE ETHERNET INTERFACE

Compliant with IEEE 802.3bw (100/1000 BASE-T1) Physical Layer

### LIN INTERFACE

- Compliant with Local Interconnect Network (LIN) Bus Specifications 1.3, 2.0, 2.1 and compliant to SAE J2602.
- Internal pull-up resistor and diode.

## ENVIRONMENTAL

The CAN Ethernet BUS Data Logger -6FD is suitable for indoor use only; if used outdoors, it must be installed in a suitable enclosure. Please refer to the manual to meet specifications.

Operating Temperature	-20°C~ 60°C
Storage Temperature	-40°C ~ +85°C
Protection Rating (IP Code)	None
Operating Humidity	0-90% RH Non-condensing
Storage Humidity	5-95% RH Non-condensing

## SUPPORT AND SERVICE

### Calibration

ART logics measurement hardware is calibrated to ensure measurement accuracy and verify that the equipment meets published specifications. To ensure ongoing accuracy, ART logics provides basic or detailed recalibration services.



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