



esd electronics, inc.

HARDWARE • SOFTWARE • ENGINEERING

# CAN-EtherCAT®

## EtherCAT® / CAN Gateway

- Fast and reliable linking EtherCAT® and CAN
- No limitation in the number of CAN nodes
- CANopen functionality as master or slave device

### Linking EtherCAT® and CAN

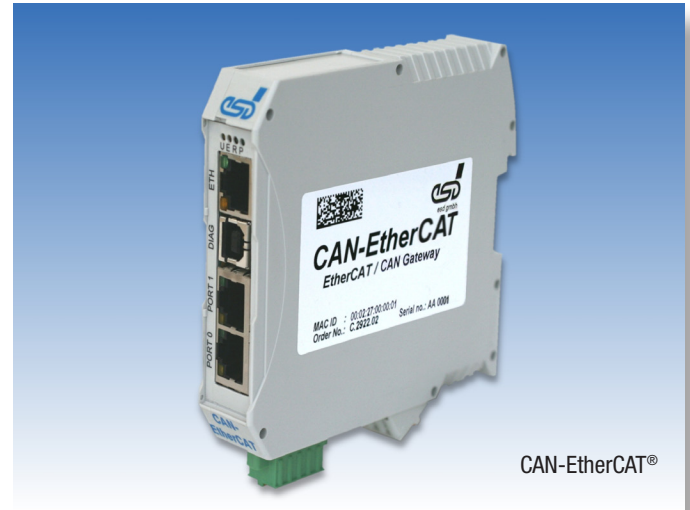
The CAN-EtherCAT® module links any EtherCAT® network to a CAN network. The gateway operates as an EtherCAT® slave with a maximum of 8 Kbytes input or output data on the EtherCAT® bus.

### Applications

With the CAN gateway you can connect CAN modules with CANopen (CiA DS 301) or layer-2 (ISO 11898-1) implementation to a real-time EtherCAT® network without the gateway limiting the number of CAN nodes. This module can also be configured as Ethernet switch port using the EoE protocol (Ethernet-over-EtherCAT®).

### Physical Interfaces

The CAN high-speed (ISO 11898-2) compatible interface allows a maximum data-transfer rate of 1 Mbit/s with the 100BASE-TX EtherCAT® interface compatible to IEEE 802.3 and running at 100 Mbit/s. Both the EtherCAT® and the CAN interfaces are opto-isolated.



For further information please visit  
[http://www.esd-electronics-usa.com/EtherCAT\\_Products.html](http://www.esd-electronics-usa.com/EtherCAT_Products.html)

# EtherCAT®

growing with the  
challenge

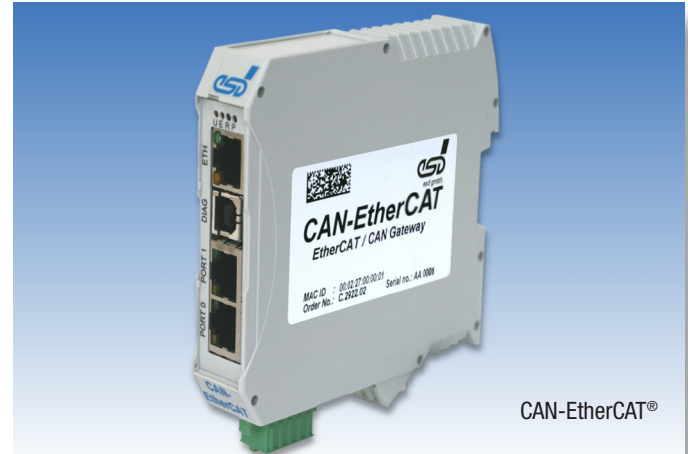
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### Technical Specifications:

<b>CPU:</b>	
Microcontroller	ARM9, 200 MHz
Memory	32 MB SDRAM
<b>CAN:</b>	
CAN controller:	ISO 11898-1
CAN interface:	5-pin open style 3.81 (CiA DR 303-1), 1 Mbit/s, ISO 11898-2, electrically isolated
<b>EtherCAT slave controller (ESC):</b>	
ESC ASIC:	ET1100
ESC interface:	2x RJ45, 100BASE-TX, 100 Mbit/s, IEEE 802.3, electrically isolated
<b>General</b>	
Power supply:	Nom. 24 VDC / 150 mA Min./max.: 18 VDC / 32 VDC
Operating temperature:	0...50° C
Dimensions [mm]:	22 x 112 x 113
Connectors:	CAN: 5-pin open style 3.81 EtherCAT: 2x RJ45 Power: 4-pin spring force plug 5.08



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### Order Information:

Description	Order no.
EtherCAT® / CAN gateway w/ documentation on CD	C.2922.02
EtherCAT® / CANopen	C.2923.02

# EtherCAT®

