



EtherCAN/2

CAN - Ethernet Gateway

- 200 MHz ARM-9 microcontroller (MCU)
- 100BASE-TX Ethernet interface
- CAN interface
- InRailBus

Description

The EtherCAN/2 is a gateway to transmit data between CAN and Ethernet. The module is designed for hat-rail mounting in a control enclosure as a backward compatible replacement for the EtherCAN gateway (C.2050.02).

Interfaces

One Ethernet interface (10/100 Mbit/s, RJ45) and one CAN high speed (ISO 11898-2) compatible interface (up to 1 Mbit/s) based on the CAN controller integrated in MCU.

Configuration and Maintenance

The gateway has a build-in HTTP server which allows Web based configuration and maintenance. Diagnostic events and messages during runtime can be optionally indicated using the syslog protocol or by sending an email. The gateway firmware can also be updated via the Web interface..

Software Support

Drivers for Windows and Linux are available which integrate the CAN gateway as a virtual CAN device on the host, programmed via the common NTCAN-API available for all esd CAN adapter. This allows using all applications, CAN protocol stacks (CANopen, J1939, etc.) and tools (CAN SDK, CANreal, etc.) available for the host platform.



For further information please visit
<http://www.esd-electronics-usa.com/CAN-Gateways-USB-Ethernet-Modbus-TCP-EtherCAT-Profinet-DeviceNet-Profibus.html>

In addition the gateway supports the UDP based disclosed and documented Ethernet Low Level Socket Interface (ELLSI) protocol for host platforms which are currently not covered with a dedicated driver.

Improvements

Compared to the EtherCAN gateway the following technical improvements are implemented:

- Increased I/O performance
- Improved diagnostics via the Web interface (e.g. CAN bus diagnostics)
- Improved usage of the NTCAN-API (e.g. hardware time-stamps).
- Simple Network Management Protocol (SNMP) support..

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challenge

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Technical Specifications

CPU:	
Microcontroller:	ARM9, 200 MHz
Interfaces:	
Ethernet:	100BASE-TX, IEEE802.3,RJ45-connector
CAN interface:	5-pin open style 3.81 (CiA DR 303-1), 1 Mbit/s, ISO 11898-2, electrically isolated
General:	
Supply voltage:	nom. 24 VDC / 100 mA min./max.: 18 VDC / 32 VDC
Operating temp.:	0...70° C
Humidity:	max. 90 % non-condensing
Dimensions [mm]:	22 x 112 x 113

Order Information

Designation		order no.
EtherCAN/2	CAN-Ethernet-Gateway	C.2051.02
EtherCAN/2-S7	Industrial Ethernet/UDP Gateway, incl. S7-example project with function modules to interface a S7-300/400	C2051.07
CAN-DRV-LCD	Object license for Windows and Linux incl. CD-ROM	C.1101.02

