



CAN-Clock

Timer for CAN-Bus

- Serial interface for DCF77- or GPS (NMEA)-receiver
- Integrated real time clock (RTC)
- One CAN interface
- Transmission of timestamp in CANopen format
- Compact top-hat rail module

Linking Time Emitter with CAN-Bus

The module CAN-Clock can link an external DCF77-clock signal receiver or an external GPS-receiver with the CAN bus. An additional internal real time clock (RTC) can take over the transmission of the timestamp if no external signal is connected. The module operates with a MB90F543 microcontroller, which buffers the CAN data in a local SRAM.

CAN Interface

The time information is transmitted as timestamp to the CAN bus. The ISO 11898-compliant CAN interface allows a maximum data-transfer rate of 1 Mbit/s. The CAN interface is electrically isolated by optocouplers and DC/DC converters. It is connected via a 5-pin screw/plug connector in Combicon style.

Design

Designed for hat-rail mounting, the CAN-Clock's front panel contains the connectors and status LEDs.



CAN-Clock

For further information please visit
<http://www.esd-electronics-usa.com/CAN IO Series.html>

Serial Interface

A serial interface links the CAN bus to an external DCF77- or GPS-receiver. And the physical layer of the serial interface is realized as an RS-232 interface.

CAN Protocols

The CAN-Clock module works with the CANopen Protocol according to CiA-DS401.

growing with the
challenge

CAN-Clock

Timer for CAN-Bus

- Serial interface for DCF77- or GPS (NMEA)-receiver
- Integrated real time clock (RTC)
- One CAN interface
- Transmission of timestamp in CANopen format
- Compact top-hat rail module



CAN-Clock

Technical Specifications

CPU and serial interface	
Microcontroller	MB90F543, 16 MHz
Memory	6k x 8 bit SRAM, 128 k x 8 bit Flash EPROM
Serial controller	MB90F543-internal, 9600 kbit/s
Physical interface	RS-232
Clock signal	External - DCF77- or GPS-receiver, internal: additional RTC
CAN bus interface	
CAN controller	MB90F543-internal, CAN 2.0A/B
CAN interface	Differential, electrically isolated, 1 Mbit/s, ISO 11898
Protocol	CANopen according to DS-401
General	
Connectors	CAN: 1x 5-pin connection socket
Serial	9-pin DSUB male, power: UEGM screw connector
Operating voltage	Nominal 24 V(DC)

For further information please visit
<http://www.esd-electronics-usa.com/CAN IO Series.html>

Order Information

Designation		order no.
CAN-Clock	CAN-Clock module	C.2836.02
Manual		
CAN-Clock-ME	English user's manual	C.2836.21

