



CANopen

CS200/x Node adapter for M200 modules

The CS200/x is the head module for CANopen slave stations. The CS200/x allows modular CANopen slave stations to be set up from the M200 modules. The same modules are used as for local stations, which simplifies stock-keeping and consistently ensures the same technical data.

Features

- Head module for CANopen slave stations
- Up to 30 I/O modules per slave station
- Optional integrated power supply
- Transfer rate 10 Kbaud to 1 Mbaud
- Bus length to 5000 m (signal repeater required)
- Two internally connected CAN interfaces for loop-through of the cable
- Galvanic isolation between CAN interfaces and control electronics
- Node address can be set via rotary switch
- 2 serial interfaces (COM 1/2)
- External 24 V power supply (CS200/N)

Part type designation	Part number
CS200	00013178-00
CS200/N	00013179-00

CS200/x

CANopen slave	
Node Number	1 to 254 selectable via rotary switches
Protocol	CANopen according to CiA DS 301 V3.0
Device profile	In accordance with CiA DS 401 for I/O, in accordance with CiA DS 402 for ACR
Firmware	Reloadable (FLASH technology)
Number of I/O modules	15 per station, 30 using bus extension modules BES/BEM or FASTBUS
Current consumption	600 mA / 5 V, 15 mA / +15 V, 40 mA / -15 V
Serial interfaces	COM1: RS232, COM2: RS232/422/485
CAN interface	
Transfer rate	10 k to 1 Mbaud
Bus length	Max. 5000 m
Connection	2x 9-pin D-Sub female connectors
Pin assignment	In accordance with CiA DS 102/4
Signal level	In accordance with CiA DS 102/4
Terminating resistor	123 Ω, external
Galvanic isolation, interfaces to the system	500 V
CANopen features according to CiA Product Guide	
CANopen Master	N
CANopen slave	Y
Extended boot-up	N
Minimum boot-up	Y
COB-ID distribution	Per SDO, no DBT
Node-ID distribution	N (no LMT)
No. of TxPDOs/RxPDOs	128/128
PDO modes	Sync, async, RTR, event
Variable PDO mapping	Y
Emergency message	Y
Life guarding	Y (heartbeat / node guarding)
No. of SDOs	4 servers
Device profile	301, 401, 402
Integrated power supply (optional) CS200/N	
Voltage range	18 V DC to 34 V DC
Current consumption	Max. 1.2 A at 24 V
Nominal power	17 W
Current consumption at +5 V	2000 mA
Current consumption at +15 V	250 mA
Current consumption at -15 V	200 mA
Approvals/Certificates	
General	CE, UKCA, cULus
Environmental conditions	
Operating temperature	-30 °C to +60 °C
Relative humidity operation	5 % to 95 % noncondensing
Storage temperature	-40 °C to +85 °C
Relative humidity storage	5 % to 95 % noncondensing
Pollution degree acc. IEC 60664-1	2 (noncondensing)

Environmental conditions

Order data

Part type designation	Part number	Description
CS200	00013178-00	CAN bus slave, 1 line 1 Mbit/s, processor system, isolated
CS200/N	00013179-00	CAN bus slave module; 1x CAN/CANopen; 1 Mbit/s; isolated; integrated power supply 17 W

Accessories

Part type designation	Part number	Description
KZ 51/03 B	00012052-00	Terminal 03 pin spacing 5.08; cage clamps with labeling strips
K-CAN/xm		Cabel CAN with x m length (x = user-defined) male <> female, without terminating resistor
K-CAN/0.5 m	00008684-03	Cable CAN with 0.5 m length
K-CAN/1.0 m	00008684-08	Cable CAN with 1.0 m length
K-CAN/2.0 m	00008684-04	Cable CAN with 2.0 m length
K-CAN/5.0 m	00008684-06	Cable CAN with 5.0 m length
S-CAN/1B	00009383-00	Connector CAN terminating resistor female