Ixxat®
BY HMS NETWORKS

CANnector

CANnector is a DIN rail mountable platform with many different communication interfaces. It is ideal for applications in which several bus systems are to be merged into a single device with its own processing power – e.g. for logging or gateway applications.

All applications run on the device, a PC is only needed for configuration or stimulation/visualization of data, as the actual intelligence – for e.g. the transport protocols – is outsourced to the embedded platform.

HMS provides with → Ixxat ACT (Advanced Configuration Tool) an easy to use Windows-based tool enabling customers to configure the device via drag-&-drop. Most use-cases can be solved by using ACT Freeware (free of charge).

HIGHLIGHTS

- DIN rail mountable
- Industrial Ethernet support (like EtherCAT)
- Up to 8 CAN (FD) channels in one device
- CAN listen only (CAN RX) for data logging use-cases
- Only a few µs delay of frames in classical gateway applications
- Switch-on CAN (self switch on in case of any CAN communication or a defined message)
- Up to 4 kV galvanic isolation
- Compatible to the Ixxat CAN@net Generic Ethernet protocol and CAN@net NT protocol

TECHNICAL SPECIFICATIONS

Dimensions (L x W x H)	196 x 113 x 43 mm
Protection class	IP40
Weight	Approx. 790 g
Operating temperature	-40 °C to +80 °C
Power supply	6-36 V DC
Current consumption	Typ. 420 mA at 12 V (sleep mode < 2 mA)
Housing material	Aluminum, stainless steel
Relative humidity	10-95 %, non-condensing
Host system	Power PC, 256 MByte RAM, 256 MByte Flash
Ethernet	10/100 MBit/s, RJ45
USB	2.0 high-speed device, USB-B 2.0 high-speed device, USB-A
CAN FD transceiver	Microchip MCP2562FD
CAN RX only	Hardware switchable
CAN high-speed transceiver	Texas Instruments SN65HVD251
CAN bus termination resistor	High-speed/CAN-FD: none
LIN transceiver	NXP TJA1020

CONTENTS OF DELIVERY

- CANnector
- Cables for Ethernet, USB
- Hardware manual
- Runtime licences for Gateway

Order number

Order number	Product name	Galvanic isolation	FlexRay A/B	CAN interface count (total)	CAN high speed	CAN low speed	CAN FD (B)	LIN	EtherCAT (slave)	Analog in	Digital in/out (A) (D)	Digital in/out (A) (E)	Ethernet 10/100 Base-T	USB 2.0 device	USB 2.0 host	SDHC slot	Inte WiF
1.01.0091.01000	CANnector Log *	yes	0	6	6	0	2	2	0	0	0	2	1	1	2	0	0
1.01.0091.02000	CANnector Range **	yes	0	6	6	0	2	2	0	0	0	2	1	1	2	0	0
1.01.0091.03000	CANnector Bridge **	yes	0	6	6	0	2	2	0	0	0	2	1	1	2	0	0
1.01.0091.00000	CANnector S	yes	0	6	6	0	2	2	0	0	0	2	1	1	2	0	0

1.01.0091.00010	CANnector L	yes	0	8	8	0	4	2	0	0	0	2	1	1	2	0	0
1.01.0091.00100	CANnector S with EtherCAT	yes	0	6	6	0	2	2	1	0	0	2	1	1	2	0	0
1.01.0091.00110	CANnector L with EtherCAT	yes	0	8	8	0	4	2	1	0	0	2	1	1	2	0	0

(A) Input or output per software switchable

(B) 6/8 CAN in total, thereoff max. 2/4 CAN-FD capable

(D) 4 digital inputs/outputs (5 V TTL)

(E) digital inputs (max. 34 V), digital outputs (max. 34 V, 1 ampere)

* CANnector Log – based on CANnector S, ready2use with a basic logging configuration and a 16GByte USB storage device

** CANnector Range/Bridge – based on CANnector S, ready2use with a basic range extending or bridge configuration