CANnector Range/Bridge

CANnector Range and CANnector Bridge are preconfigured versions of the CANnector S device, enabling users to easily setup range extending or bridge applications for CAN and CAN FD networks without time consuming configuration.

The basic range configuration of CANnector Range transmits all 6 CAN buses transparent over a longer distance via Ethernet. Two devices are required for this function (master/slave). In addition, CANnector Range can also be used as a multiple CAN(FD) interface connected to the PC via Ethernet. This allows Ixxat VCI based or D-PDU-API applications being connected to the field buses via a long distance. For this use case only one CANnector Range device is required.
The CANnector Bridge can act as Bridge and Gateway. The four provided configurations initialize all 6 CAN interfaces with 125 kbit/s, 250 kbit/s, 500 kbit/s, or 1000 kbit/s and forward all received data as follows: CAN1 ↔ CAN2; CAN3 ↔ CAN4; CAN5 ↔ CAN6. Specific baudrate combinations can be selected easily without the need for setting up a own configuration.

The Range and Bridge functionality is executed stand-alone on the device, a PC is only needed for user specific configurations or visualization/stimulation of data.

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