

CAN-AIR/2

Wireless CAN-Bridge with USB Interface

- wireless CAN-Bridge
- CAN telegram filtering
- ISM band (2.4 GHz)
- external antenna
- USB interface

Wireless CAN Bridge

The CAN-AIR/2 is designed for bridging two different CAN networks via a radio link. It supports data exchange between CAN nets with two different baud rates. This stand-alone mode can be used e.g. to get access to CAN modules installed at turning machine parts or replacement of "slip rings" via a point-to-point connection (see example 1 below).

Wireless PC-Interface

Today's most common PC interface USB is used to configure CAN-AIR/2. But beside this - CAN-AIR/2 enables a PC to transmit and receive CAN data via USB and CAN-AIR/2 into and from a distant CAN-AIR/2 for e.g. service and maintenance (see example 2 below).

CAN Interface

The CAN interface is designed according to ISO11898 with electrical isolation and bit rates up to 1 Mbit/s.

LED Indicator

Four LEDs indicate the state of the module's interfaces.

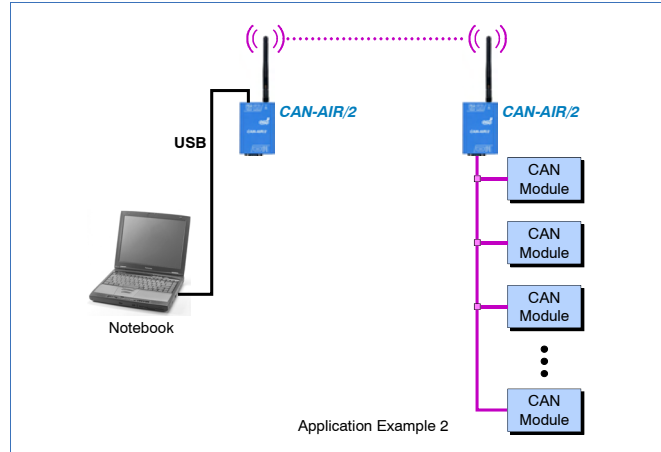
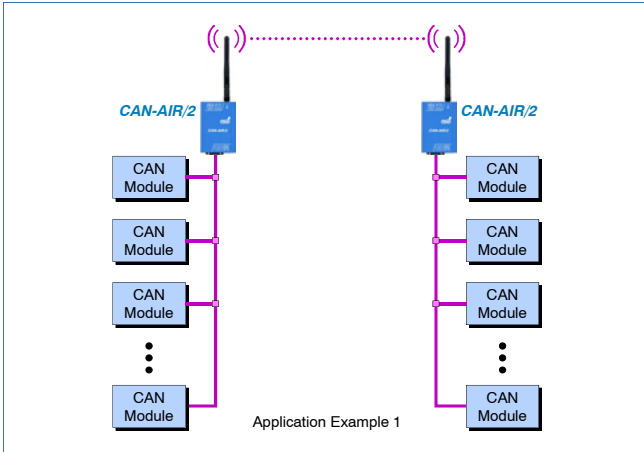
Software Support

CAN-AIR/2 comes with an easy to use Windows based configuration tool. All settings will be stored within the device. Access via esd's ntcn[®] API is supported.



Power Supply

5 VDC directly via USB interface or 12/24 VDC via external power supply.



Technical Specifications:

Radio communication:	
Carrier frequency:	ISM band, 2.4 GHz
Transceiver:	typical peak output power: 0 dBm, typical Rx sensitivity for BER = 10 ⁻⁴ : - 85 dBm
Antenna type:	impedance: 50 Ohms nominal, antenna gain: 2.0 dBi, connector: coaxial SMA plug (male)
Transmission range:	approx. 25 m line-of-sight (LoS) distance
CAN, Microcontroller:	
Microcontroller:	ARM LPC2292, CAN: ISO 11898-1
CAN interface:	acc. to ISO 11898-2, electrically isolated, bit rate up to 1 Mbit/s
Software:	Windows based configuration tool and monitoring tool CANreal

General:		
Ambient temp.:	0 ... 50 °C	
Power supply:	via USB: 5 VDC or external supply: 12/24 VDC	
Dimensions:	90 x 55 x 25 mm (without antenna)	
Connectors:	CAN: 9-pole DSUB (male), Antenna: SMA (female)	
Order information:		
Designation		order no.
CAN-AIR/2	Wireless CAN-Bridge (one module)	C.2067.02
CAN-AIR/2-Bridge	2x CAN-AIR/2 transmission range approx. 25 m line-of-sight distance	C.2067.04
Option: top hat rail	DIN-EN mounting rail bracket	on request