

# CAN-AIR/2

## Wireless CAN-Bridge with USB Interface

### Wireless CAN-Bridge

- CAN telegram filtering
- ISM band (2.4 GHz)
- External antenna
- USB interface
- Data exchange between CAN nets with two different baud rates possible

### Easy Software Configuration

- Easy to use Windows configuration tool
- All settings are stored within the device

### Power-over-CAN Version (Option)

- Power supply also via CAN DSUB9 connector (PoC)

### 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 for example 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).



### 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.

### Power Supply

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

### Software Support

Software drivers for Windows®2K/XP/Vista/7/8 (32/64 bit) are included in delivery.

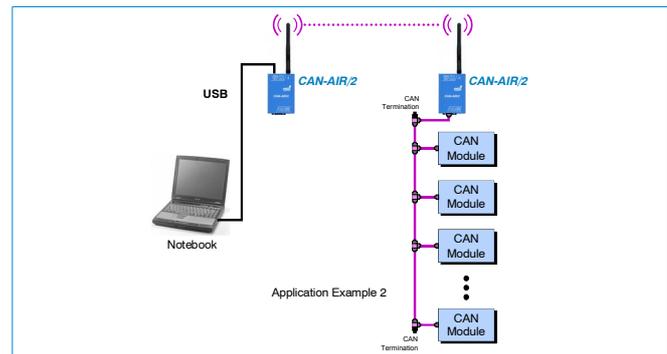
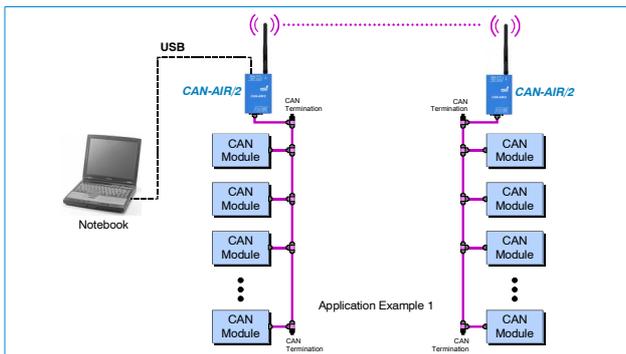
CAN-AIR/2 comes with an easy to use Windows based configuration tool. All settings will be stored within the device.

### 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, e.g. service and maintenance (see application example 2 below).

The firmware can be updated from the PC. Updates are available on the esd website.

Additional free-of-charge esd CAN tools for Windows offer efficient setup and analysis of CAN applications and networks.



### Technical Specifications:

Radio communication:	
Carrier frequency	ISM band, 2.4 GHz
Transceiver	typical peak output power: 0 dBm, typical Rx sensitivity for BER = 10 <sup>-4</sup> : - 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 °C ... +50 °C
Relative humidity	Max. 90 % (non-condensing)
Power supply	via USB: 5 VDC or external supply: 12/24 VDC; optional PoC (CAN-AIR/2-PoC only)
Dimensions	90 x 55 x 25 mm (without antenna)
Connectors	CAN: 9-pole DSUB (male), Antenna: SMA (female)

Order Information:		
Hardware		Order No.
CAN-AIR/2	Wireless CAN-Bridge (single module)	C.2067.02
CAN-AIR/2- Tragschiene	CAN-AIR/2 for DIN hat rail mounting	C.2067.03
CAN-AIR/2-Bridge	2x CAN-AIR/2, transmission range approx. 25 m line-of-sight distance	C.2067.04
CAN-AIR/2-Bridge- Tragschiene	CAN-AIR/2-Bridge for DIN hat rail mounting	C.2067.05
CAN-AIR/2-PoC	CAN-AIR/2, with Power-over-CAN	C.2067.06

CAN layer 2 drivers for Windows<sup>1</sup> are included in delivery.

<sup>1</sup> For detailed information about driver availability for your operating system please contact our sales team.