

CANblue II (for usage with external antenna)



The Ixxat CANblue II is a cost-effective and versatile bluetooth module for CAN systems. With its three operation modes – PC interface, bridge and gateway – it covers a wide range of application areas. It is ideal for mobile configuration and analysis or for bridging CAN networks via a convenient Bluetooth interface.

By using multiple CANblue II devices, network segments can be easily connected to each other, enhancing flexibility and compatibility in various use cases. Thus, even hard-to-reach systems can be reliably interconnected over long distances of up to 200 meters.

An external antenna can be ordered separately for usage of the CANblue II.

FEATURES AND BENEFITS

- Quick start-up and connection
- High transmission range with low latency and high data throughput
- Flexible configuration options (combination of several CANblue II)
- High performance transmission without message loss
- For usage with external antenna

ORDER NUMBER	1.01.0126.12001
CAN channels (high-speed)	1
CAN bus interface	1 x D-Sub 9, CiA standard pinning according to CiA 303-1
CAN performance at 1 Mbit	100 % bus load
CAN controller	CAN 2.0 A/B
CAN high-speed transceiver	SN65HVD251
CAN interface isolation working voltage	130 V AC/DC (continuous)
Galvanic isolation	1 kV DC for 1 sec.
Bluetooth interface	Bluetooth v4.0 with EDR, 200 m max. transmission range
Output power	13 dBm, external antenna
Bluetooth output frequency	2.402 to 2.480 GHz, ISM band
Antenna	External antenna, RP-SMA connector, max. antenna gain 3.4 dBi

ORDER NUMBER	1.01.0126.12001
Maximal distance between two devices in bridge mode	200 m / 650 ft
Bridge set-up time	Typ. 3 to 4 sec.
Bluetooth transfer delay	Approx. 4 ms (average), CAN/Bluetooth or Bluetooth/CAN
Microcontroller	32 bit
Power supply	9 - 30 V DC
Power consumption at 12 V	Typ. 50 mA, max. 100 mA
Dimensions	82 x 64 x 26 mm
Weight	Approx. 83 g
Operating temperature	-40 °C to +85 °C
Protection class	IP20
Relative humidity	10 to 95 %, non-condensing
Certification	CE, FCC, Telec
Housing material	Plastic housing with mounting holes
LED	Three LEDs (Mode, CAN and Bluetooth)

CERTIFICATES
   

ACCESSORIES	ORDER NUMBER
External stub antenna (RP-SMA)	1.04.0085.00001
Magnetic foot antenna 1.5 m	1.04.0085.00000
Screwable antenna foot	1.04.0085.00003

PIN ALLOCATION

CAN CONNECTOR D-Sub 9 ①



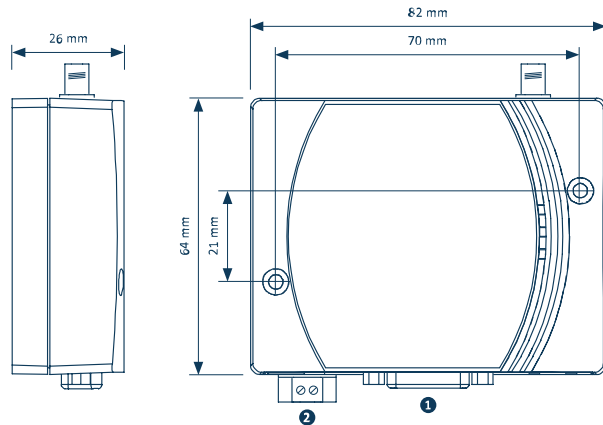
Pin no.	Signal
7	CAN-High
2	CAN-Low
3, 6	CAN-GND

POWER CONNECTOR ②



Pin no.	Signal
1	9 to 30 V DC
2	GND

TECHNICAL DRAWING



SOFTWARE SUPPORT

Drivers and programming interfaces

Comprehensive and powerful driver and software packages for the CANblue II series are available for free at ixxat.com/support. The driver packages can be downloaded for Windows (VCI - Virtual Communication Interface) and Linux (ECI), and are available on request for various real-time operating systems (INtime, RTX, Vxworks, QNX).

Using the Ixxat driver packages, customers can easily switch between the different PC interfaces offered by HMS. This would allow them to use USB, PCIe, Ethernet or other PC connections without changes to their application. The drivers support all protocols available on the interface with one API, so customers can easily access CAN, CAN-FD and LIN simultaneously and get the data with a common time stamp.

Software tools

The software tool canAnalyser3 Mini is included in the VCI V4 download package and enables the first analysis steps and monitoring in CAN networks. Further information about the tools as well as Demo/Trial versions are available on the Ixxat webpage.