Ixxat CAN@net NT 100

Item number: 1.01.0332.10000

The Ixxat CAN@net NT 100 is a multifunctional gateway, bridging CAN networks via Ethernet for remote access and enhanced reliability. It features one CAN channel and supports long-distance communication, with several message processing and cloud connection functionalities. For more efficient network management.



CAN Ethernet gateway, bridge and PC interface

Features and benefits

Three operation modes in one device

The Ixxat CAN@net NT can be used as PC interface, as CAN-Ethernet-CAN bridge or as CAN Ethernet gateway – all in one device.

Bridge operation enables CAN system expansion

The bridge mode enables easy message exchange between CAN systems, also over Ethernet – to setup tree or star topologies or to enable long-range communication.

Cost savings due to simple wiring

Optimized topologies enable simpler wiring, resulting in less cables and cost savings at installation and maintenance.

Customizable actions

Additional programming of action rules using LUA for tailored responses to specific network events.

Cloud connection

MQTT support allows direct transmission of information to the cloud, facilitating IoT and remote monitoring applications.

Easy configuration and maintenance

Windows configuration tool allows for easy setup and maintenance via USB or Ethernet.

PC operation mode with VCI driver support

The Ixxat VCI driver package enables easy integration into PC-based Ixxat applications and customer-specific programs. Ideal for configuration, analysis and maintenance.

CAN Ethernet gateway for flexible access

In gateway mode, the device can be accessed regardless of the operating system or platform, using a simple ASCII protocol via TCP/IP socket.

On device intelligence

Advanced filter, ID translation, data mapping and multiplexing functionalities streamline network traffic and enhance efficiency.

Device and system protection

Network segmentation with galvanic isolation protects devices against damage caused by voltage peaks.

Configurable security levels

Defined access levels for configuration or firmware upload.

Support for Linux and QNX

Using the free ECI driver package, the hardware can be easily integrated into Linux-based environments as well as into applications under the QNX real-time operating system. 32- and 64-bit ARM (Raspberry Pi) and Intel X86 platforms are supported.

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General

Net Width (mm)	99
Net Height (mm)	114.5
Net Depth (mm)	22.5
Net Weight (g)	157
Packed Width (mm)	14
Packed Height (mm)	4
Packed Depth (mm)	18
Packed Weight (g)	288
Operating Temperature °C Min	-40
Operating Temperature °C Max	85
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Relative Humidity	10 to 95 %, non-condensing
Current Consumption Type Value at Vcc Nom (mA)	110 mA (24 V DC), 230 mA (12 V DC)
Input Voltage (V)	9 V to 36 V DC, with overvoltage and polarity protection
Isolation	1 kV DC for 1 sec.
Isolation Voltage (kV)	CAN: 2,5 kV for 1 minute; Ethernet: 1,5 kV for 1 minute
Configuration	The Ixxat CAN@net NT series is configured and updated with a straightforward Windows configuration tool through USB or Ethernet. This tool simplifies setting up filters, mapping, multiplexers, or translation rules, requiring no programming expertise.
Content of Delivery	CAN@net NT device, user manual, Mini USB cable, available as free download: CAN-Gateway Configurator tool, CAN driver VCI, simple CAN monitor "canAnalyser Mini"

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General

Not Included (in delivery)	comprehensive and powerful driver and software packages are available as free download
Mounting	DIN rail mount (bracket included)
Housing Materials	Polyamide housing for top hat rail mounting
Packaging Material	Cardboard
Warranty (years)	1

Identification and Status

Product ID	1.01.0332.10000
Export Control Classification Number (ECCN) (Applies only to the U.S)	EAR99

Physical Features

Connectors / Input / Output	1 x D-Sub 9 connector, 1 x RJ45 connector, 1 x Mini USB port, 1 x screw terminal (power)
Contains Battery	No

CAN Features

CAN Mode	CAN high-speed (ISO 11898-2:2016)
CAN Baud Rate	5 kBit/s to 1 MBit/s

Certifications and Standards

cULus	Yes
Protection Class IP	IP20
Product Certifications	CE, FCC, UKCA, cUL, cULus
WEEE Category	IT and telecommunications equipment