Ixxat CAN@net NT 420

Item number: 1.01.0332.42000

The Ixxat CAN@net NT 420 is a multifunctional gateway, bridging CAN networks via Ethernet for remote access and enhanced reliability. It features four CAN channels, thereof two CAN FD capable, and supports long-distance communication, with several message processing and cloud connection functionalities. For more efficient network management.

CAN/CAN FD 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.

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.

Bridge operation enables CAN system expansion

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

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.

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.

Cost savings due to simple wiring

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

On device intelligence

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

Customizable actions

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

Device and system protection

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

Cloud connection

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

Configurable security levels

Defined assess levels for configuration or firmware upload.

Easy configuration and maintenance

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

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Identification and Status

Product ID	1.01.0332.42000
Country of Origin	Germany
HS Code	8517620000
Export Control Classification Number (ECCN)	EAR99

General

Net Width (mm)	99
Net Height (mm)	114.5
Net Depth (mm)	22.5
Net Weight (g)	188
Packed Width (mm)	14
Packed Height (mm)	4
Packed Depth (mm)	18
Packed Weight (g)	320
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

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General

Isolation	1 kV DC for 1 sec.
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"
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

Physical Features

Connectors / Input / Output	1 x RJ45 connector, 1 x Mini USB port, 5 x screw terminals (4 x fieldbus, 1 x power)

CAN Features

CAN Mode	CAN high-speed (ISO 11898-2:2016)
CAN Controller	IFI CAN_FD IP/80 MHz
CAN Baud Rate	5 kBit/s to 1 MBit/s

CAN FD Features

CAN FD Mode	ISO CAN FD (ISO 11898-1: 2015)
CAN FD Baud Rate	Arbitration rate up to 1000 kBit/s, data rate up to 8000 kBit/s (verified by testing). User defined bit rates are possible.

Certifications and Standards

Protection Class IP	IP20
ETIM Classification	EC001604
WEEE Category	IT and telecommunications equipment