Ixxat CANbridge NT 420

Item number: 1.01.0331.42000

The Ixxat CANbridge NT 420 is a configurable CAN to CAN bridge/router to connect different CAN/CAN FD systems. It offers four CAN channels, thereof two CAN FD capable, and supports long-distance communication, with several message processing and multiplexing functionalities. Ideal for efficient network management and system expansion.



Intelligent CAN-to-CAN bridge with CAN FD support

Features and benefits

Seamless system integration

CANbridge NT 420 enables the simple coupling of CAN/CAN FD systems and thus supports the conversion of networks with different bit rates or frame formats. Offers compatibility across different devices.

For CAN and CAN FD

Four independent CAN channels, two of which can be switched via software to CAN FD.

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.

Easy configuration and maintenance

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

Bridge operation enables CAN system expansion

The bridge mode enables easy message exchange between CAN/CAN FD systems – to setup tree or star topologies.

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.

Configurable security levels

Defined access levels for configuration or firmware upload.

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General

Related Accessories	1.04.0074.03000
Net Width (mm)	99
Net Height (mm)	114.5
Net Depth (mm)	22.5
Net Weight (g)	184
Packed Width (mm)	14
Packed Height (mm)	4
Packed Depth (mm)	18
Packed Weight (g)	304
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), 220 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.
Configuration	The Ixxat CANbridge NT series is configured and updated with a straightforward Windows configuration tool through USB. This tool simplifies setting up filters, mapping, multiplexers, or translation rules, requiring no programming expertise.
Content of Delivery	CANbridge 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	1.01.0331.42000
Export Control Classification Number (ECCN) (Applies only to the U.S)	EAR99

Physical Features

Connectors / Input / Output	1 x Mini USB port, 5 x screwterminals (4 x fieldbus, 1 x 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

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

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