devolo IoT Gateway – secure networking
Technical specifications

High-performance hardware

Communication variety
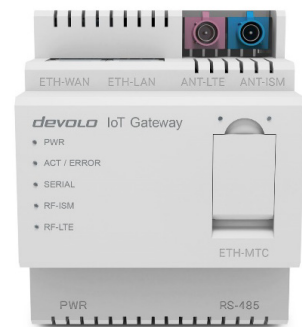
High security

User-friendly

Industry-compatible

The secure and high-performance IoT gateway for your applications.
devolo's hardware platform for Smart Industry, Smart Energy & Smart Mobility.

The devolo IoT gateway elevates your company's internal data infrastructure to a new level of security, protects the data streams in decentralised energy clusters and controls intelligent e-mobility components.

Product features

High-performance hardware
Application processors from the i.MX 7 series with 1 GB of RAM and 4 GB Flash memory.

Communication variety
Wired (3x ETH, 1x RS-485) and wireless (2x FAKRA antenna connection, 1x SIM slot) connections.

High security
Integrated security module and secure boot process provide high degree of protection from espionage and sabotage.

User-friendly
The flexible Linux operating system and a documented, open-source-based Software Development Kit make installing applications fast and easy.

Industry-compatible
Thanks to protection class IP 30, high fire resistance, a compact housing for DIN rail mounting and industry-compatible surge protection, the product has a long service life.

Manufacturing process
We have established a complex, secure and reliable production environment with our manufacturer. Individualised devices can be produced and shipped in mass quantities.

Developed in Germany
devolo has extensive experience in the hardware-based and software-based network security field – gained throug hour many years of research and development together with many strong partners from the academic and industrial sectors.

devolo IoT Gateway
Technical data

Interfaces	3x Ethernet IEEE 802.3 (RJ45 socket), 100Base-TX, Auto MDI-X
	1x RS-485 bus line (RJ12 socket) with 12V supply, up to 1MBaud/s
	1x wM-Bus antenna connection in accordance with DIN EN 13757 (FAKRA connector coding C) operating modes S / T / C [optional]
	1x LTE-M module antenna connection (FAKRA connector coding D)
	    • Cat. 1 (10/5 Mbps) with 2G fallback
	    • Cat. 4 (150/50 Mbps) with 3G/2G fallback [optional]

SIM card format	2FF (Mini SIM) eSIM [optional]
Processor	Single ARM Cortex A7 Dual ARM Cortex A7 [optional]
Security module (optional)	Smart Metering HSM (permanently integrated), Secure Boot
Memory	4 GByte, non-volatile Flash memory 1 GByte RAM
Number of LEDs	5
Power consumption (typ.)	5W
Software platform	Linux distribution
Real-time clock	10-year power reserve
Voltage supply	230 V AC single-phase L/N 50 Hz
Electrical safety	Overvoltage category III
Flame resistance class	5VB
Ambient temperature (storage/operation)	-25 °C to 70 °C / -25 °C to 55 °C
Configuration, dimensions (in mm)	DIN rail mounting, 4 HP: 72 (width) x 90 (height) x 62 (depth)
Ambient conditions	10–90% humidity (non-condensing)
Protection class	IP30
Conformity	CE
Features	Option for installation situation in sealed area so that an Ethernet port is in the secure area. Suitable for installation in area downstream of meter with upstream external line fuse

devolo IoT Gateway