

MULTI-PROTOCOL-GATEWAY



Multi-Protocol gateway for processing information from BACnet, Lon, Modbus and M-Bus devices.

General

The integrated web server allows that all functions can be configured using a standard web browser. Network statistics information is mapped to data points.

Automation functions

The multiprotocol gateway supports automation functions such as alarming (alarm management including alarm forwarding and acknowledgment), scheduling (time switching including configuration of time control programs from external BACnet devices) and trending (data recording).

BACnet IP

The gateway supports BACnet / IP. The integrated web server the BACnet client configuration and the local BACnet device configuration is managed using the web browser based configuration software (network scan or EDE import).

LON Gateway:

The gateway conforms to the CEA-852 and ISO / IEC 14908 standard and is operated on the Ethernet / IP (IP-852) channel. Standard network variables (SNTPs), user-defined NVs (UNVTs) and configuration parameters (SCPTs, UCPTs are supported). NVs can be linked via "binding" or they can be polled as "external data points".

LON-IP-852 Router / IP Configuration Server

The integrated configuration server can manage up to 254 additional external IP-852 devices (IzoT, VNI, router) on the IP-852 channel (i.e. a total of 256). The IP router enables the segmentation of the LON network and increases the data rate and the number of devices.

Up to 4 Lon channels can be plugged into the USB-Interfaces. This can be a mix of the following interfaces: LON-TP / FTT-10 (Echelon U60 FT DIN USB Network Interface), TP / XF-1250 (Echelon U60 TP-1250 DIN Network Interface) or C-Band Power line (ISO / IEC 14908-3) (Echelon U70 PL DIN USB Network Interface).

The IP router enables remote diagnosis using LonScanner FX and network management using a tool such as Alex, OpenLNS CT, IzoT CT or LonMaker via the intranet (local LAN) or the Internet.

The integrated IP-852 router supports the operating mode of configurable routers and, through intelligent learning of the routes on subnet/node and group level, also learning routers and can also be used as an active repeater.

Via the integrated web server, all functions can be configured using a standard web browser, and detailed channel statistics (CRC errors, channel load, packet switching statistics, etc.) can be queried.

M-Bus Master (with external level converter)

The gateway has a fully integrated M-Bus master according to EN 1375. Up to two external M-Bus level converters (M-Bus master interface) can be connected on the RS-232 and/or RS-485 interface for the physical conversion of the level will.

ModBus Master/Slave

Modbus-Geräte devices can be connected over Ethernet Modbus TCP or over EIA-485 (RS-485) Modbus RTU.

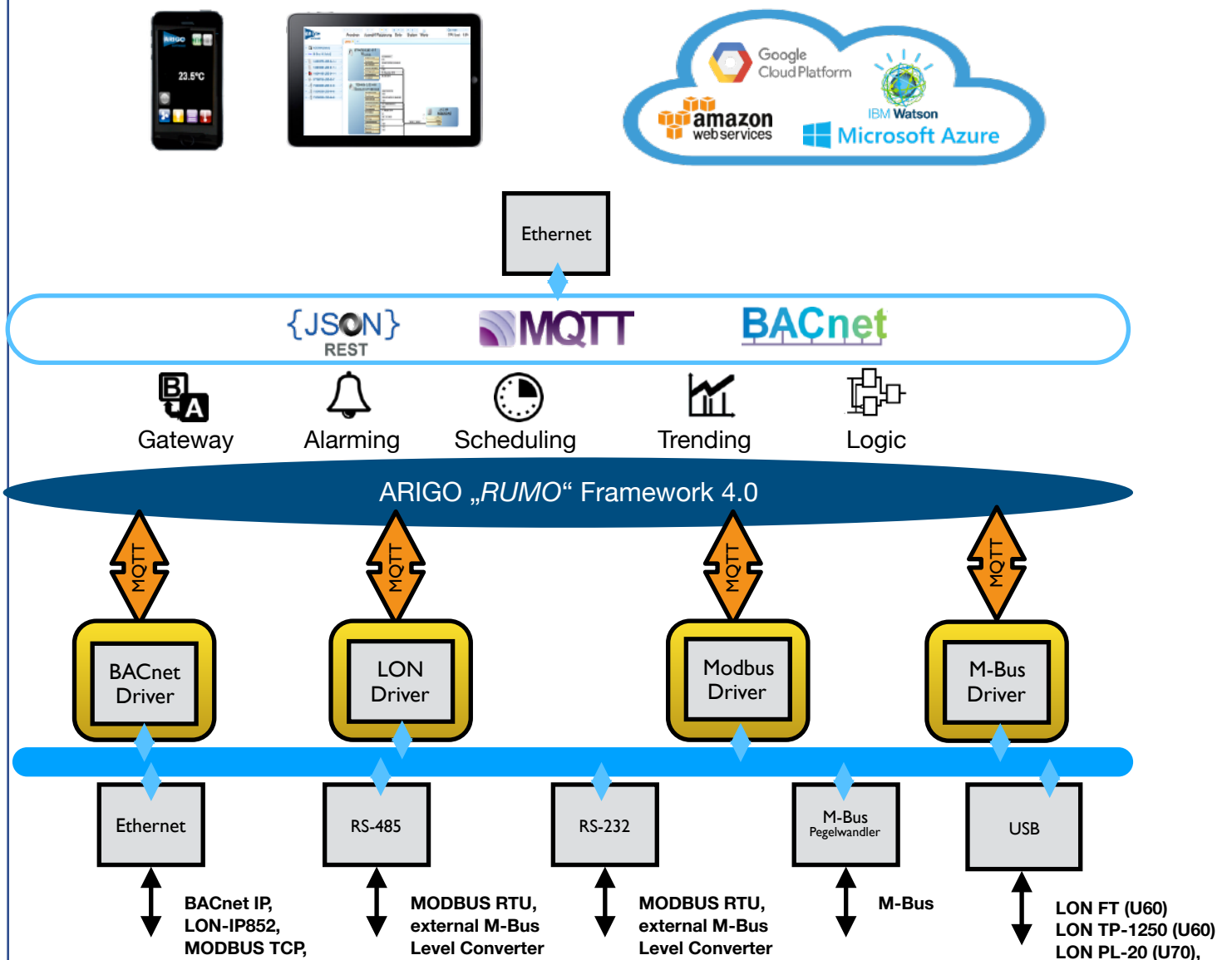
HTML Visualisierung (only advanced Version)

Modern browser technology is used to graphical visualization of the building management system. The websites of one or more multiprotocol gateways can be displayed. The current browsers (FireFox, Google Chrome, MS Edge, and Safari) are supported which can be called upon PCs or mobile smartphones, tablets, etc. The BACnet network is accessed via BACnet / IP. Optional openVPN client can be used for secure remote access.

The dynamic HTML5 graphic pages are configured using the integrated web HMI tool (included in the position). The object-oriented configuration with the WYSIWYG view enables the easy creation of intuitive, platform-independent user interfaces. Automation objects for alarming (displaying and managing), scheduling (time control / calendar), and trending (data recording) are supported.

The freely scalable graphics pages can be adapted to any display size.

Architecture



Specifications	
Size (l x w x h)	89,7 mm x 108 mm x 62,2 mm (6TE)
Housing	DIN rail housing according to DIN 43880 for mounting rails according to DIN EN 50022
Housing Material	Plastic flammability class V0 according to UL 94
Weight	218 g
Protection	IP20
Supply-voltage	min. 12 V – max. 30 V DC
Maximum power consumption	25 Watt (with 6 x 500 mA at each USB-Port)
Operating temperature	-40 °C to +55 °C
Interfaces	6 x USB 2.0 A 1 x Micro-USB 1 x HDMI V1.3a 2 x RJ45 (Ethernet) 10/100 Mbit/s 1 x RS485, isolated 1 x RS232, isolated 1 x Expansion-Bus with 3 x UART, 1 x I2C
CPU	1.2 GHz, Quad-Core 64-bit
RAM	1 GByte
Flash-memory	8 GByte (optional 32 GByte)
Certification	EC 61000-6-2, EN55032, EMVEN55024
Buffer time RTC	min. 24 h
Optical displays	2 Status LEDs
Availability	10 Years (compatibility)

Order numbers	
095420-MPG	Multiprotocol-Gateway (Basic Version, max. 100 data points, BACnet and one more protocol)
095422-MPG	Advanced Option (max. 1000 data points, BACnet and max 3 additional protocols, HTML-Editor)
75060R-40	To access LON FTT channels, the USB adapter U60 FT DIN Network Interface must be ordered.
95411	LONPLT Powerline Interface C-Band
95029	PC04 3-Phase Coupler for Powerline C-Band