MULTI EDGE DEVICE FOR SECURE IOT CONNECTIVITY

conga-connect

- Edge-Computing and IoT-Gateway

- Remote Control & Maintenance

- IT/OT Security (Physical Network Separation, Firewall functionality, Data-centric connectivity)

- PLC Connectivity

- Database & Cloud connectivity

- Integrated VPN gateway

IoT Functionality

User management	conga-connect supports individual users with definable user rights.
Remote Access	For conga-connect, a "Rendezvous Server" services enables secure access to system data beyond company borders. This allows for data access from virtually any place and between different conga-connect systems installed at different sites. This feature requires a respective security certificate.
Remote access VPN	conga-connect can also act as a remote maintenance gateway. This functionality is made available via a separate, third physical network port, which by default is deactivated and can be activated via a 2-way authentication approach with onsite presence. For the corresponding VPN access, a separate security certificate is required.
OPC UA Connectivity	OPC UA Server AND OPC UA Client functionality, multiple instances possible, assignment to individual network ports.
MQTT Connectivity	MQTT Connector, connecting to external brokers and / or acting as broker
Notification Service / SMTP Connector	The Notification Provider offers configurable notifications, including templates, that can be automatically sent out based on data situations (alarming etc.).
REST Client	configurable REST clients, incl. templates, intuitive user interface to quickly connect to REST servers and APIs
File System Provider	This features allows for access to external network drives. Thanks to the physical network separation of conga-connect and its purely data-centric connectivity, this feature can be used to integrate data from intrinsically insecure networks (e.g. SMBV1 on legacy OS machines).
Cloud Connectivity	Certified Cloud Providers: Microsoft Azure, AWS Cloud, Software AG Cumulocity, German Telekom IoT Cloud.
PLC Connectivity	S7 native, RFC 1006, and more.
Modbus (TCP/RTU)	conga-connect can communicate with ModBus devices via the ModBus provider. For ModBus RTU an optionally available serial interface is required.
Integrated Webserver	conga-connect has a built-in webserver, which allows for intuitive configuration of the system. Optionally, it can be used to host application-specific, interactive websites, e.g. to visualize data in an intuitive context, this way offering a full featured Web-SCADA functionality. In combination with the Remote Access feature, websites can be accessed without compromises on cyber-security.

conga-connect | Hardware and Extension Cards

System

Dimensions | Protection	97 x 160 x 106 mm | Class IP20
Mounting	TS35 Mounting Rail (DIN EN 50022)
Temperature | Humidity	Operating 0 °C to 60 °C ; Storage -40 °C to 85 °C | 10% to 90% r. H. non cond.
Controller	conga-SMX8-Plus/i-QC-NPU-4G eMMC16
Storage	16GB eMMC | M.2 interface for optional SSD | SD Card Slot
Display	Screen diagonal 5.5 cm; 128x64 pixels; RGB backlight
Interfaces	3x physically separated RJ45 ethernet ports for IT, OT and remote access
Power Supply	DC 24V
Internal UPS	~30 seconds for secure shutdown

Extension Cards

I/O Card	I/O Card for connecting of digital and analog in- & outputs Processor Cortex®-M4 32-bit STM32L476VCT for data pre-processing and as communication processor 9x digital Input (floating ground, 3 groups) 4x analog input (0..10V / 0...20mA / 4...20mA; floating ground) 2x digital output (160 mA)
Communication Card	Adapter card for connecting mini PCIe plug-in cards/M.2 cards Processor Cortex®-M4 32-bit STM32F030CCT6 Two channels for communication modules: - Mini PCIe: full or half-size format; alternatively internal USB interface - Mini PCIe: full or half-size format; alternatively M.2: Key B; 30/42/50mm; alternatively, USB: Type A USB interface directly as external slot; optional slot with SIM card holder
Serial Card	Plug-in card for connecting serial communication devices Real-time interface processing on processor Cortex®-M4 32-bit STM32F411CEU6 Two independent channels - Channel 1: Output RS485 / ModBus RTU, RS422 (Optional RS232) - Channel 2: Output RS485 / ModBus, RS422 (Optional TTY)

conga-connect | Order Information

Article	PN	Description
conga-connect	350100	conga-connect Edge Device
conga-connect/IOCard	350113	conga-connect Extension Board for I/O functionality
conga-connect/ComCard	350114	conga-connect Extension board for communication
conga-connect/SerCard	350115	conga-connect Extension board for serial interface

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