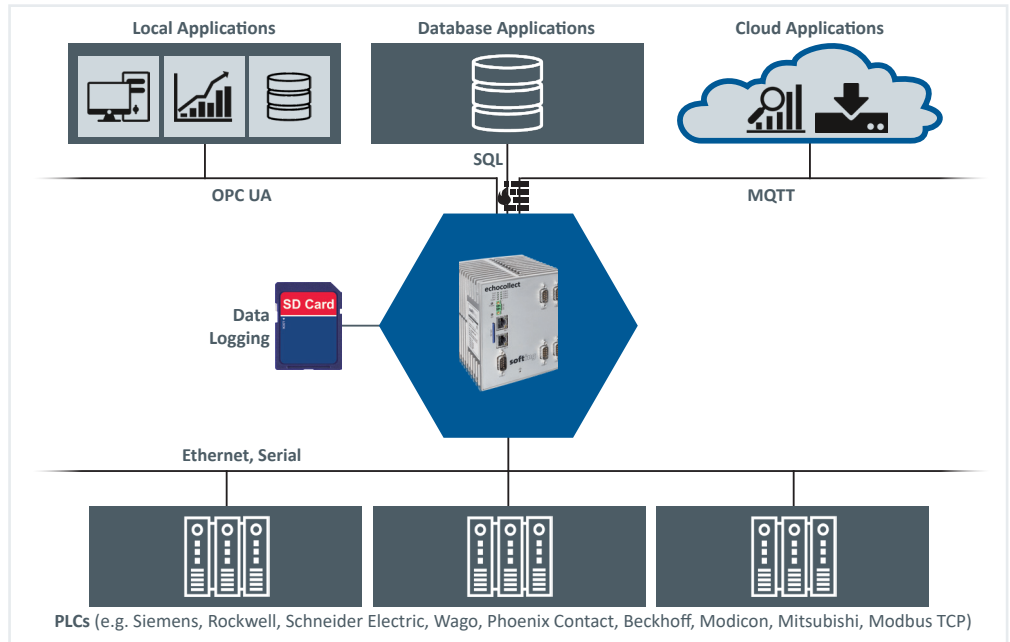# echocollect r/m

Industrial Multi-Protocol Gateway Targeted to OT and IT Level Connectivity

- **Bidirectional Data Exchange Capabilities, Including Databases and IoT Clouds**
- **Wide Range of Supported PLC Types for Connectivity and Traceability Functionality**
- **Simple Integration as Standard Interface Thanks to Large Number of Protocols**

PLCs (e.g. Siemens, Rockwell, Schneider Electric, Wago, Phoenix Contact, Beckhoff, Modicon, Mitsubishi, Modbus TCP)

Modern Connectivity Capabilities

- Access to manufacturing, process and quality data in more than 50 PLC types addressable via Ethernet and serial protocols
- Integration of client applications running on-premises as well as in private and public clouds
- Direct connectivity via platform-independent OPC UA technology, SQL database protocols or MQTT Publisher functionality
- Embedded OPC UA Server functionality
- Direct data exchange between controllers of different types and variants
- Buffering of arriving data and addition of time stamps in case of broken connections, automatic forwarding once connection has been reestablished

Additional Functionality Required for Production

- Data storage in various SQL databases
- Recipe manager functionality for writing data blocks from databases to PLCs
- Optional logging of field data plus time stamps for traceability reasons on SD card or FTP server

- **Driven by Customer Needs**
- Step-by-step user guidance based on contextual online help
- Easy symbol import directly from PLC projects
- Physical network separation between production systems and commercial IT networks
- No need for software updates, operating system patches and PC updates resulting in years of failure-free operation
- No PLC programming or dedicated PC required for connec ting PLCs
- Plug-and-play replacement, if necessary, using configuration stored on SD card

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Technical Data

Ethernet Addressable Controllers	Siemens SIMATIC S5/S7 and Siemens-compatible controllers (e.g. VIPA), Modbus TCP controllers (Wago, Beckhoff, Phoenix Contact, Schneider Electric, etc.), Rockwell SLC-500, PLC-5, ControlLogix and CompactLogix, Mitsubishi (Melsec-Q), etc.
Ethernet Protocols	TCP/IP, RFC1006 (ISO on TCP), ISO (H1), S5, S7, TCP/IP with PLC header, Rockwell SLC-500, PLC-5 and CLX, Modbus TCP, Melsec-Q, raw data
Ethernet Interfaces	2 x independent interfaces TP (RJ45), 10/100 MBit/s
Serial Addressable Controllers	Siemens SIMATIC S5/S7, controllers with RK512, 3964(R), controllers with Modbus RTU (Modicon, Schneider Electric, Wago, etc.), etc.
Serial Protocols	MPI, PPI, AS511, RK512, 3964R, Modbus RTU, Telnet / ASCII
Serial Interfaces	EIA-232 (RS-232), TTY (20 mA), MPI (up to 4 connections per channel)
Embedded OPC UA Server	Symbolic Mapping; Browsing, Read, Write, Subscribe; Self-Discovery Service; possible reconfiguration without device restart; possible multiple Client connections, optional read-only PLC connection; OPC UA Security with password or certificates
Embedded MQTT Publisher	Establishment of MQTT Broker connection, optional user authentication and data encryption, easy topic generation from existing symbols, maximum of 1,000 topics, adjustable publishing interval
Supported Databases	MySQL, Oracle, DB2, Microsoft SQL Server
Other Protocols	Telnet, SMTP (e-mail notification), OPCpipe (OPC Tunnel)
Supported Engineering Tools for Symbol Import	SIMATIC STEP 7, TIA Portal V13/V14/V15 including Service Packs
Limitation	Maximum of 5 PLC connections, 10,000 items in total Data mapping PLC - database must be structured in 400 tables and 200 items per table
Configuration Software	Softing NetCon for device configuration, dataFEED Exporter for symbol import
Power Supply	24 VDC, ca. 1,1 A
Ambient Conditions	Operating temperature: 0 °C ... 55 °C, storage temperature: -20 °C ... 70 °C
Dimensions (H x W x L)	131 mm x 110 mm x 111 mm
Weight	ca. 0,8 kg
Mounting	35 mm DIN Rail
Protection Class	IP20
Certifications	CE

Scope of Delivery

Hardware	Multi-protocol gateway echocollect r/m, SD card, connector for power supply*
Software	Net conconfiguration software on CD-ROM, also downloadable from Softing website
Documentation	Quick Start leaflet, context-based online help, CD-ROM with product manual and configuration tutorials, also downloadable from Softing website

* A plug-in powerpack is not included in the delivery. If needed, please order this separately.

Order Numbers

GAL-YY-143201	echocollect r (connectors: 2 x Ethernet, 1 x TTY, 3 x EIA-232, 1 x MPI)
GAL-YY-143401	echocollect m (connectors: 2 x Ethernet, 3 x TTY, 2 x MPI)
LRA-YY-143001	Upgrade echocollect: License for database access to Oracle, DB2 and MSSQL (default: MySQL only)
LRA-YY-143002	Upgrade echocollect: License enabling data logging on SD Card (default: no data logging)
LRA-YY-143005	Upgrade echocollect: License embedded OPC UA Server (default: no embedded OPC UA Server)
LRA-YY-143007	Upgrade echocollect: License MQTT Publisher functionality (default: no MQTT support)
LRA-YY-143115	Upgrade echocollect: License enabling maximum of 15 PLC connections (default: maximum of 5 PLC connections)

Additional Products and Services

700-5596-04	AC Adapter, 24 VDC, Euro, UK, or USA
LRL-DY-131701	OPCpipe client
GPL-CS-191000	echolink sS7-compact
110-1000-01	Industrial Ethernet – Troubleshooting in Automation, 3 days

Your local Softing contact:

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