Ewon Flexy 205

Item number: FLEXY20500_00MA

The Ewon Flexy is a multipurpose IIoT data gateway that allows machine builders and users to monitor and collect vital KPIs for analysis and predictive maintenance. Gather data from PLCs, sensors and other devices thanks to the support of a wide range of industrial protocols, including OPC UA.



Industrial VPN gateway for IIoT data collection & monitoring

Features and benefits

Easily acquire and log data

Gather data from PLCs, sensors and other devices thanks to the support of a wide range of industrial protocols, including OPC UA.

Implement efficient data monitoring

The Ewon Flexy supports all major PLC protocols for data logging & alarms. Local web-dashboard for KPIs monitoring through Talk2m's M2web service. OPC UA server to share data with Enterprise Systems.

Do more with built-in connectors and APIs

You might not have a data application today. But when the time comes, be confident in the fact that you can connect to a local or cloud data solution and make your machine smarter.

Extended data services

Wide range of possibilities: PLC data acquisition, alarms, OPC UA, Modbus, MQTT, SNMP, HTTPs, local web-dashboards, cloud live KPIs, and programming (Basic & Java).

Enable machine remote connectivity

Enjoy VPN remote access for PLC troubleshooting. The included Talk2m cloud's global infrastructure is redundant and reliable. Setup your device in minutes for unrivalled connectivity success.

Leverage flexible data integration

Full flexibility to send data to any server. Multiple IoT connectors, and MQTT/HTTPS through embedded Basic or Java scripting engine. Talk2m Data Services with APIs for third party software integration.

Future-proof thanks to extension cards

Discover the interchangeable extension cards of the Ewon Flexy: WiFi, 3G, 4G, USB, Ethernet WAN. These allow you to easily keep up with the evolution of communication technologies.

OPC UA ready

Ewon Flexy gateways support OPC UA, a modern protocol for industrial automation. It enables easy machine connectivity, asset modernization, and secure data collection from the factory floor.

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General

Net Width	55
Net Height	133
Net Depth	122
Net Weight	122
Packed Width	295
Packed Height	180
Packed Depth	57
Packed Weight	184
Operating Temperature °C Min	-25
Operating Temperature °C Max	+60
Storage Temperature °C Min	-30
Storage Temperature °C Max	+70
Relative Humidity	11 to 95% relative humidity (non-condensing).
Input Voltage (V)	12 - 24VDC +/-20%, LPS. Consumption: depending on the extension card installed (see Installation guide on our website).
Power Connector	9-pole
Configuration	Web-Based configuration: Embedded web interface with setup wizards for configuration and maintenance (no extra software needed). Authentication with login/password and user management capability. Possibility of uploading custom web GUI.
Content of Delivery	This product consists of the following components: an industrial gateway in a plastic housing, a power connector, 2 pcs of Flexy blank extension front plates, legal references in paper version and a branded cardboard box.
Not Included (in delivery)	Any variant of extension boards and their accessories (antenna, cable)
Mounting	DIN rail mount (bracket included), Wall mount

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General

Housing Materials	Plastic
Packaging Material	Cardboard
Warranty (years)	3
PLC Compatibility	Rockwell Automation/Allen Bradley, Siemens, Schneider Electric, Mitsubishi Electric, Vipa, Omron, Hitachi

Data Features

Router Features	Routing capability between LAN and WAN Ethernet interface and Ethernet to serial gateway. IP filtering, IP forwarding, NAT, Port forwarding, Proxy, Routing table, DHCP client/server, NAT 1 :1.
VPN	OpenVPN either in SSL UDP or TCP.
VPN Security	VPN sessions are end-to-end encrypted using SSL/TLS protocol. Communications between the remote user and the Ewon are fully encrypted using the SSL/TLS protocol, thereby ensuring data authenticity, integrity & confidentiality. Indeed, all users and Ewon units are authenticated using x509 SSL certificates and end-to-end traffic is encrypted using strong symmetric & asymmetric algorithms that are part of the SSL/TLS protocol cipher suite.
Data Acquisition Protocols	OPC UA, Modbus RTU, Modbus-TCP, Unitelway, DF1, PPI, MPI, PROFIBUS, FINS Hostlink, FINS TCP, EtherNet/IP, ISO TCP, Mitsubishi FX, Mitsubishi MELSEC, Hitachi EH, ASCII, BACnet/IP
Data Publishing Protocols	OPC UA, Modbus, MQTT, SNMP, HTTPS
Data Logging	Define up to 2500 internal tags. Internal database for data logging (real-time logging and historical logging up to 1,000,000 timestamps). Historical data can be exported to DataMailbox or transferred by FTP or email.

Identification and Status

Product ID	FLEXY20500_00MA
Country of Origin	Lithuania
HS Code	8517620000

Physical Features

SD Card Slot	SD
Connectors / Input / Output	4 x RJ45 Ethernet port: 10/100 Mb. Configurable LAN/WAN ports, port 1 always LAN, 2x Digital input: 0 to 12/24VDC; 1.5kV isolation, 1x Digital output: open drain (MOSFET) 200mA; 1.5 kV isolation.
Contains Battery	Yes



Certifications and Standards

Certifications & Compliance	CE, UL, KC, FCC, IC, RCM, UKCA
PTCRB	No
Environment	Temperature - Operating & Storage tested according to: IEC 60068-2-1 Cold test, IEC 60068-2-2 Dry heat test, IEC 60068-2-14 Change of temperature, IEC 60068-2-30 Cyclic damp heat test

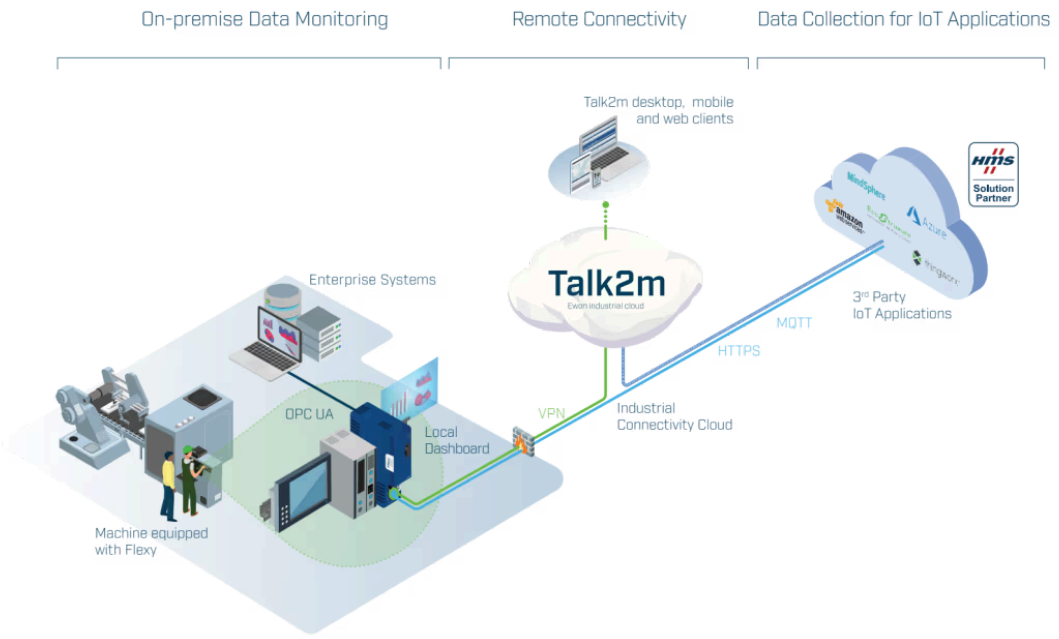
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Certifications and Standards

Vibration and Shock	Vibration & shocks tested according to: IEC 60068-2-27 Bumps, IEC 60068-2-64 Vibration (broad-band random), IEC 60068-2-6 Vibration (sinusoidal)
WEEE Category	IT and telecommunications equipment
Other Certification	Giteki Japan, Russia FSS notification, Anatel

Use Case


On-premise Data Monitoring
Remote Connectivity
Data Collection for IoT Applications
Talk2m desktop, mobile and web clients
Talk2m
Ewon industrial cloud
Enterprise Systems
OPC UA
Local Dashboard
Machine equipped with Flexy
VPN
Industrial Connectivity Cloud
MQTT
HTTPS
3rd Party IoT Applications
Solution Partner


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Use Case






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