eWON
MACHINES CAN TALK

Your remote sites at your fingertips ?

Industrial M2M Router & Data gateway

The eWON Flexy is the first industrial modular M2M router and data gateway designed for OEMs and system integrators. The flexibility allows to link remote devices in an environment where communication technologies are constantly changing but also to communicate universally with the most varied field equipment, regardless of the protocol used.

Flexy

www.ewon.biz

Flexy-ble Industrial M2M Router

FLEXY PRICE

PROTECT YOUR INVESTMENT

Flexy 10x, the M2M Data Gateway

A low-cost version, designed for large deployment, the Flexy 10x includes all classical eWON features except routing capabilities between WAN, LAN and RS232/422/485 sides. The main applications with the Flexy 10x are data monitoring and data collection. The Flexy 10x family includes the following base modules.

Flexy 20x, the M2M Router

The Flexy 20x includes routing and gateway capabilities between WAN, LAN and RS232/422/485 fieldbus. It allows full remote access to devices located on the LAN side or on the Field side of the Flexy. The Flexy 20x family includes the following base modules.

Build your Flexy

"2 product families, 3 base modules, unlimited possibilities"

Your Flexy

- Flexy 101/201 : with a Switch 4x Ethernet LAN Port 10/100MB
- Flexy 102/202 : with an Ethernet 10/100MB port and an RS232/422/485 port
- Flexy 103/203 : with an Ethernet 10/100MB port and an MPI port

Base modules

Flexy 101/201

Flexy 102/202

Flexy 103/203

Extension cards

① DUAL SERIAL PORTS

Connect any RS232/485/422 devices for remote access applications or data acquisition using eWON Flexy I/O servers library.

② ETHERNET WAN

WAN Ethernet access to connect your industrial assets to the Internet.

③ 3G+ HSUPA

Pentaband modem for worldwide connectivity using a 2G, 3G or 3G+ cellular network with up to 7.3 Mb/sec download and 2 Mb/sec upload.

④ WIFI

802.11 b,g,n WiFi client for WAN access to Internet.

⑤ PSTN

Industrial PSTN modem V92 (56.000 bps) for landlines connections.

⑥ ADSL

Industrial ADSL 2/2+ VPN router for remote connectivity over standard ADSL (annex a), including improved range and data throughput rate.

FLEXY WAN

Keeping up with the evolution of communication technology

Select the best way to connect your industrial device to the Internet: cellular, LAN, landlines, WiFi. This flexibility is one of the key factors for the success of your project. The eWON Flexy lets you adapt to technology shifts (e.g. the move from 2G to 3G) by just adding/changing the WAN extension card. All of this with limited impact on your budget.

FLEXY FIELD

Connecting the machine end

Thanks to a wide range of field interfaces (RS232, RS485, RS422, MPI, Ethernet) supporting numerous industrial protocols, the eWON Flexy is able to connect to a wide range of industrial devices. The Flexy concept allows you to upgrade easily to new technology, preventing the need to reinvest in a completely new product.

Flexy-ble Apps

Activate your Flexy Apps

"Your M2M application designed in minutes"

FAST TIME-TO-MARKET

REDUCE DEVELOPMENT TIME

SCALABLE SERVICES

SECURE VPN REMOTE ACCESS

The eWON Flexy embeds VPN capabilities and compatibility with Talk2M and eFive. This allows highly secure remote access for remote monitoring, troubleshooting and application tuning. The Flexy 20x adds routing capabilities that allows remote access to any serial or Ethernet devices behind the eWON Flexy. It enables PLC remote maintenance, remote IP camera, remote HMI monitoring, etc.

DATA ACQUISITION

The eWON Flexy is able to perform local data acquisition using the serial or Ethernet port. The data acquisition process is built around a tagged database in which each tag is associated with an I/O server. The eWON Flexy is able to perform data acquisition with the following protocols: Modbus RTU, Modbus TCP, Uni-Telway, EtherNet/IP, DF1, FINS TCP, FINS Hostlink, ISO TCP, PPI, MPI, Profibus, Mistubishi FX, Hitachi EH, ASCII.

ALARM MANAGEMENT AND NOTIFICATION

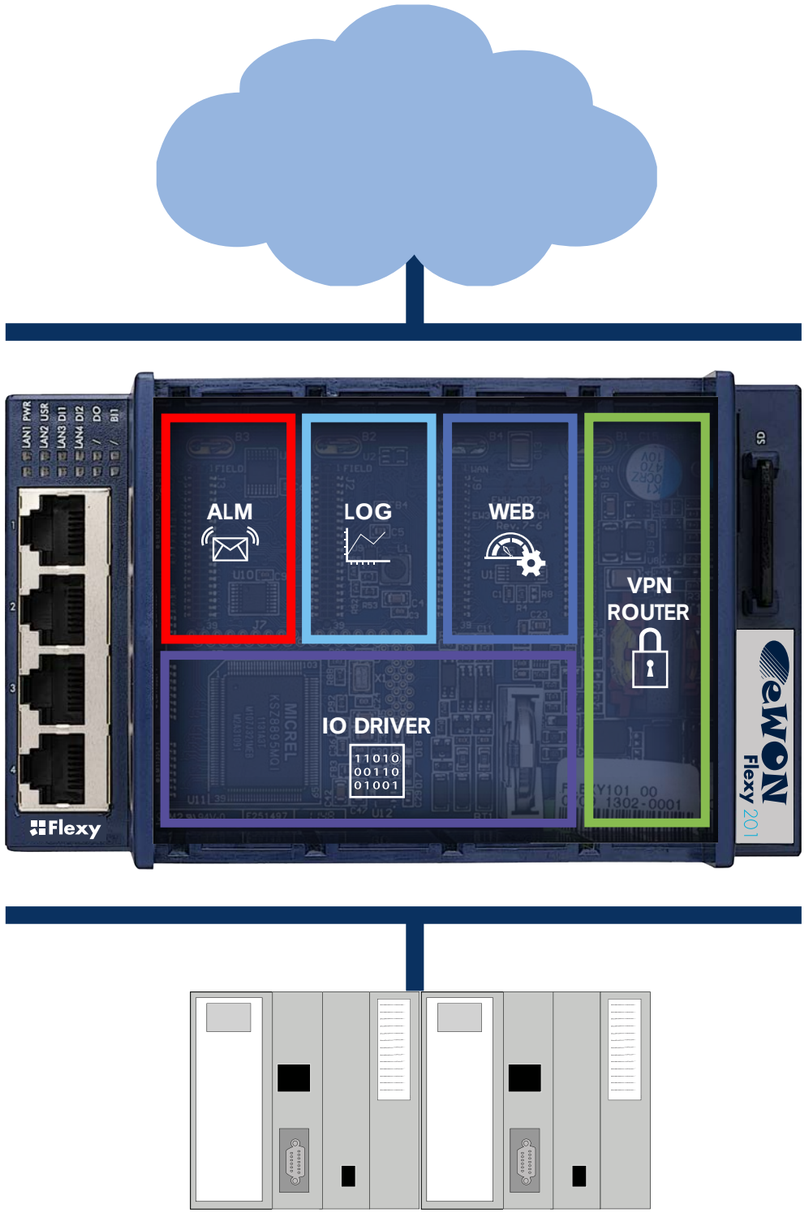
The eWON Flexy provides full support for alarm triggering, acknowledgment, status and traceability. Alarm thresholds (4x) and parameters (activation delay, deadbang value) can be set on every tagname. The complete alarm cycle (ALM, RTN-return to Normal, ACKnowledgment, END) is traced and available for monitoring and analysis. Alarm notification can be performed by email, SMS, SNMP trap and/or put FTP.

DATA LOGGING AND RETRIEVAL

Continuous data logging and buffering can be performed on every tagname. Each tagname can be logged on fixed interval or on change (with deadband). eWON stores tag data values (+timestamp) in its internal database (up to 1,000,000 time stamped points) for statistical analysis and later review (historical logging) or to analyze recent trends (real-time logging). The datalogging files can be easily retrieved by FTP, HTTP or as an e-mail attachment.

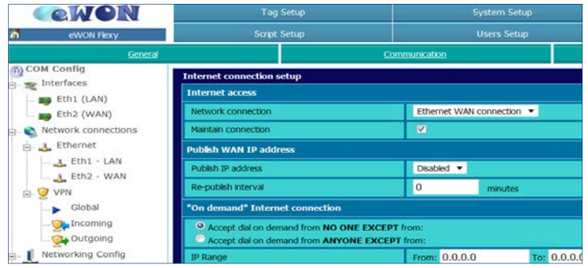
WEB SERVER HMI

The eWON Flexy has an integrated web server for configuration and monitoring purposes. The eWON Flexy provides a highly cost effective HMI, viewable wherever you are through any standard Web browser interface.



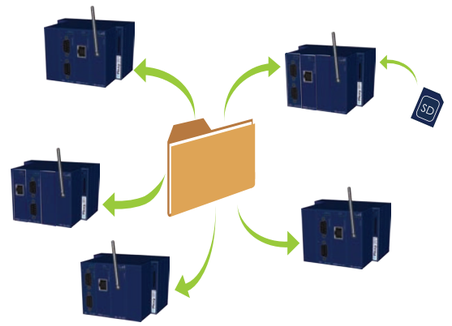
EASY CONFIGURATION

All the data services applications are easily set up by eWON web page configuration. No external software or programming tools are required to configure and build applications. An application with data acquisition, alarming, datalogging and data retrieval by HTTPS can be performed in just a few hours!



EASY DEPLOYMENT

All configuration and application parameters are available in a text file that allows centralized device management. eWON Flexy can be remotely updated by remote file swap or local SD card upload.



PROGRAMMABLE

The eWON Flexy can be fully scripted using BASIC scripting language or JAVA to design from simple to sophisticated automated tasks such as:

- Reading and writing data via the serial port for industrial devices with proprietary protocols
- Sending e-mail messages; uploading and downloading FTP files
- Replying to incoming SMS messages
- Managing TCP/IP routing tables and features
- Dynamically updating the eWON unit configuration

JAVA and BASIC script are intended to be used for deploying large eWON based applications, since this provides flexibility and scalability.

Looking for a specific driver?
The eWON Partner program is designed to educate and produce qualified partners who are able to assist you in the customization and programming (JAVA, BASIC) of your eWON Flexy.
www.ewon.biz/partners

Flexy-ble Architecture

YOUR APPLICATION

Industrial machines
Cleantech machines
Photovoltaics
Building management
Smart metering
Water and waste water
Energy monitoring
Irrigation systems
Energy meters
...

Connect your Flexy

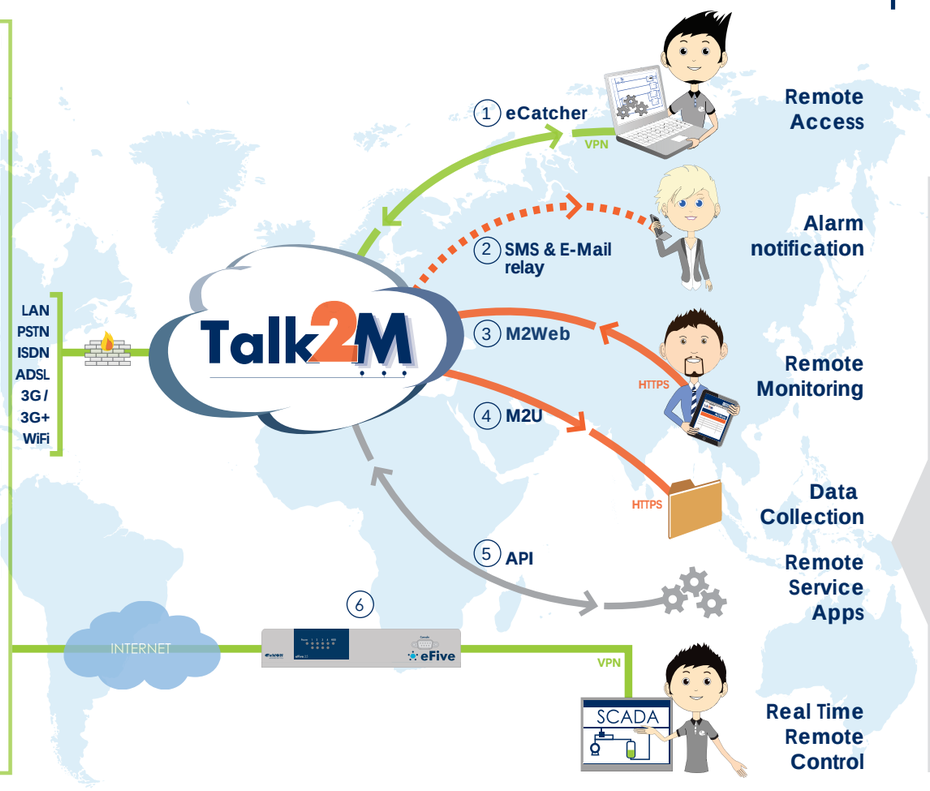
"You will always find the right way to connect your remote devices"

TALK2M – THE FREE CONNECTIVITY CLOUD SOLUTION

Talk2M is the first secure industrial connectivity service in the cloud. With servers spread out all over the world, Talk2M offers a highly reliable, efficient and secure solution for connecting to machines remotely. Talk2M gathers thousands of accounts and manages thousands of connections per day including a full audit trail connection tracking.

Field Connectivity | **M2M Routers & Data Gateways** | **Cloud-based Remote Connectivity** | **M2M Services**

Modbus MEMBER
Collaborative Automation by Schneider Electric
Rockwell Automation Encompass Product Partner Europe
ODVA
e-Factory Partner Product
SIEMENS
HITACHI Inspire the Next
OMRON
MITSUBISHI ELECTRIC FACTORY AUTOMATION
ABB
VIPA A YASKAWA COMPANY



Your eWON Partner

Dedicated apps developed by our eWON Partners are available on www.ewon.biz/partners

Want to become a partner?
Join our developer community and access our dedicated program.

eWON PARTNER

1 ECATCHER - REMOTE ACCESS "ON-DEMAND"

Secure VPN connection to reach any serial or Ethernet devices: upload projects, gain remote use of an HMI, debug the PLC program and, if necessary, download new settings or program.

2 SMS & E-MAIL RELAY

Add E-Mail and text messaging capabilities to your PLC and machines. From now on, you can receive alerts by SMS without having an eWON router equipped with a cellular modem, and receive E-Mails via Talk2M's SMTP server.

3 M2WEB-REMOTE MONITORING

Secure mobile web access from your iPad, iPhone or any Android device.

4 M2U-REMOTE DATA COLLECTION IN PUSH MODE

Secure HTTPS link to retrieve data

5 M2WEB HTTPS API

Allows stateless HTTPS requests to the remote device connected to TalK2M. The M2Web HTTPS API allows to:
- Send commands to a remote site
- Designing mobile Apps for remote monitoring
- Accessing remote web services
- Gathering data from remote site

6 EFIVE – REAL TIME REMOTE CONTROL

VPN server and firewall for permanent connections, eFive makes the perfect bridge between your remote PLC and your SCADA.

eWON
MACHINES CAN TALK

Compose your eWON Flexy

Flexy Base modules

	The M2M Data Gateway			The M2M Router		
Product Ref.	Flexy 101	Flexy 102	Flexy 103	Flexy 201	Flexy 202	Flexy 203
Routing WAN/LAN/Serial	NO			YES		
Switch 4x Ethernet LAN 10/100Mb,	•			•		
1 x RS232/422/485 port 1 x LAN 10/100Mb port		•			•	
1 x MPI/Profibus port 1 x LAN 10/100Mb port			•			•
Historical logging	996.147 time stamped points					
Power Supply	12-24 VDC +/-20%, LPS					
Temperature range	-25°C to +70°C					
Marking	CE cULus E350576					
Warranty	24 months					
Mechanical characteristics, Standards & Directives	see Datasheet www.ewon.biz/flexy					

Flexy Extension cards

		Product ref.	Description
WAN	3G+ GSM	FLB3202	Pentaband UMTS/HSUPA modem 7.3 Mbit/s down, 2 Mbit/s up
	Ethernet WAN	FLX3101	1 x 10/100Mb Ethernet port
	WIFI	FLB 3204	802.11 b,g,n WIFI client
	ADSL	FLB 3502	ADSL 2/2+(annex a) Modem
	PSTN	FLA 3501	V92(56.000 bps) Modem
	CDMA	FLB 3205	Ask about availability
FIELD	Dual serial ports	FLA3301	1 x RS232/422/485 serial port 1 x RS232 serial port
	...	...	Consult factory for other field cards

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