

The Ewon Cosy is an industrial remote access gateway that is designed to offer scalable and secure remote access to machines in the factory.



Machine Builders, Line Builders, and System Integrators can troubleshoot machines, debug PLC programs, upload projects, and gain remote control of an HMI or an IP camera, all without going on site. This drastically reduces support costs for them and their customers.

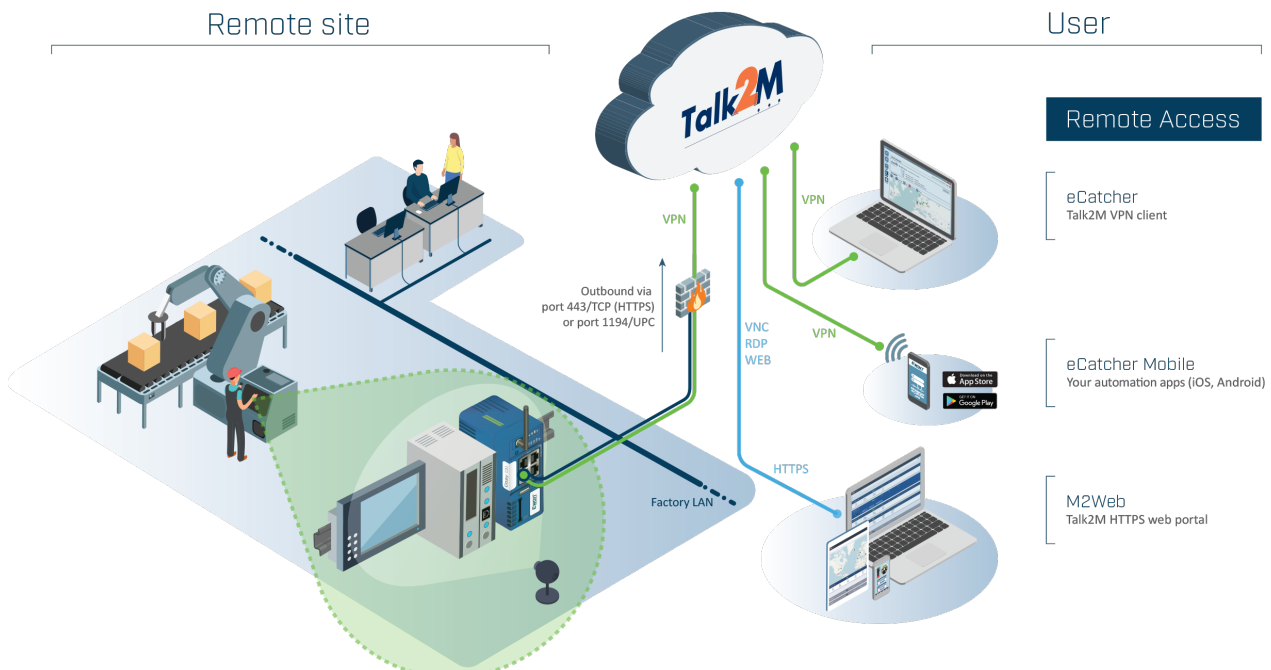
The Ewon Cosy establishes a secure VPN connection from the machine to anywhere in the world via Talk2M, a cloud-based remote connectivity solution. The router seamlessly communicates on the local area network with the PLC and the HMI, and allows remote connection from a computer, tablet, or smartphone. Ewon Cosy and Talk2M make connectivity easy, and don't require the user to be an IT expert to take advantage of the time and cost saving advantages.

## Highlights

- Integrated WiFi or Cellular options, including 4G versions for Europe (EU), North America (NA) or Japan (APAC)
- Firewall friendly outbound connection
- Standard ports used: 443 (HTTPS), 1194 (UDP)
- Possible to configure the Digital Inputs to control internet connection with external key switch or to send alarm notification
- SD card option for easy commissioning
- USB connectivity for micro-PLCs
- 24 VDC power supply and DIN rail mount

## Typical Applications

- Remote access to PLC, IPC, HMI or IP camera
- PLC remote Service and Support



Standards & Directives	
WAN Ethernet	Up to 3 ports, 10/100 Mb Ethernet
LAN Ethernet	Up to 4 ports, 10/100Mb Ethernet
Field interface	Up to 10 USB 2.0 connections, female connector 2.0
SD card reader	YES, for Cosy commissioning (firmware upgrade, backup, Talk2M registration)
Router	IP filtering, IP forwarding, NAT, Port forwarding, Proxy, Routing table, DHCP client/server
Internet	Outbound connection for Talk2M using HTTPS (port 443 or UDP 1194)
VPN Tunneling	OpenVPN either in SSL UDP or HTTPS
Talk2M	Talk2M Free+ or Talk2M Pro, natively supported
VPN Security	Communications between the remote user and the Ewon are fully encrypted using the SSL/TLS protocol, thereby ensuring data authenticity, integrity & confidentiality. 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.
Synchronization	Embedded real-time clock, manual setup via http or automatic via NTP
File Management	FTP server for configuration, firmware update
Web-based configuration	Embedded web interface with setup wizards for configuration and maintenance (no additional software needed). Basic authentication (login/password) and session control for security.
Mechanicals	Dimensions: 108 x 99 x 42 mm (H x D x W) Weight: 191 gr DIN rail or wall screw fixing system
Power supply	12-24 VDC +/-20%, LPS
Extended Temperature Range	Operating: -25°C to +70°C, 10 to 95% relative humidity (non-condensing) Storage: -40°C to +70°C, 10 to 95% relative humidity (non-condensing)
Hardware	1xDO: open drain ( MOSFET) 200mA; isolation 1.5kV, 2xDI: 0 to 24VDC; 1.5 kV isolation
Marking	CE, cULus listed, FCC
Warranty	36 months

Features for the EC6133G (cellular 4G EU)	
Bands	4G: B1, B3, B7, B8, B20 3G: B1, B8 Automatic fallback to 3G w
Antenna Connector	Type SMA - Female
Antenna	not included in the delivery
Weight	202 gr

Features for the EC6133H (cellular 4G NA)	
Bands	4G: B2, B4, B5, B12/B13 3G: B2, B5 Automatic fallback to 3G
Antenna Connector	Type SMA - Female
Antenna	not included in the delivery
Weight	202 gr

Features for the EC6133F (cellular 4G-APAC, only Japan certified)	
Bands	4G: B1, B3, B5, B7, B8, B18, B19, B21, B28, B38,B39, B40,B41 3G: B1, B5, B6, B8, B9, B19,B39 Automatic fallback to 3G
Antenna Connector	Type SMA - Female
Antenna	not included in the delivery
Weight	202 gr



**Features for the EC6133D (cellular 3G)**

<b>Frequencies</b>	GSM/GPRS/EDGE Quad-Band (850, 900, 1800, 1900 MHz) - HSPA+ UMTS Pentaband module (800/850, 900, AWS 1700, 1900, 2100 MHz)
<b>Antenna Connector</b>	Type SMA - Female
<b>Antenna</b>	not included in the delivery
<b>Weight</b>	202 gr

**Features for the EC 6133C (WiFi)**

<b>WAN Connectivity</b>	Ethernet or WiFi 802.11 b/g/n
<b>Frequencies</b>	Channels: 1 to 11(inclusive)
<b>Security</b>	WPA2, WPA and WEP
<b>Antenna Connector</b>	RP-SMA female connector
<b>Antenna</b>	Included in the delivery; frequency: 2.4GHz; impedance: 50 Ohms; gain: 2.0dBi
<b>Weight</b>	199 gr

**Standards & Directives**

<b>Type tests</b>	<p>Temperature - Operating &amp; Storage tested according to:</p> <ul style="list-style-type: none"> <li>IEC 60068-2-1 Cold test</li> <li>IEC 60068-2-2 Dry heat test</li> <li>IEC 60068-2-14 Change of temperature</li> <li>IEC 60068-2-30 Cyclic damp heat test</li> </ul> <p>Vibration &amp; shocks tested according to:</p> <ul style="list-style-type: none"> <li>IEC 60068-2-27 Bumps</li> <li>IEC 60068-2-64 Vibration (broad-band random)</li> <li>IEC 60068-2-6 Vibration (sinusoidal)</li> </ul>
<b>CE</b>	<p>Compliant with:</p> <ul style="list-style-type: none"> <li>EMC directive 2014/30/EU</li> <li>RE directive 2014/53/EU</li> <li>RoHS directive 2011/65/EU</li> <li>REACH regulation 1907/2006</li> </ul> <p>According to standards:</p> <ul style="list-style-type: none"> <li>EMC: ITE; emission Class A</li> <li>EN55032; EN55024</li> <li>EN301489-1; EN301489-7; EN301489-17; EN301489-24; EN301489-52</li> </ul> <p>Spectrum:</p> <ul style="list-style-type: none"> <li>EN301511; EN301908-1 &amp; -2</li> <li>EN300328</li> </ul> <p>Health: EN62311</p> <p>Safety: EN60950, EN62368</p>
<b>FCC</b>	Compliant with CFR 47, part 15B Class A; 15C; 22H; 24E; 27
<b>IC</b>	Compliant with IC (Industry Canada) RSS-132; RSS-133; RSS-139; RS-210
<b>Japan</b>	This equipment has the Type Approval Certification based on the Radio Law
<b>Safety</b>	<p>Conform to:</p> <ul style="list-style-type: none"> <li>EN60950-1; UL60950-1; CSA-C22.2 n° 60950-1-07</li> <li>UL listed: file number# 350576</li> <li>CB Certificate n° DK-42240-A1-UL, DK-72992-UL</li> </ul>

<b>Part Number</b>	<b>Description</b>
EC61330	Industrial Gateway COSY131 WAN/LAN/USB
EC6133C	Industrial Gateway COSY131 WAN/LAN/USB + WIFI
EC6133D	Industrial Gateway COSY131 WAN/LAN/USB + Cellular 3G
EC6133G	Industrial Gateway COSY131 WAN/LAN/USB + Cellular 4G EU
EC6133H	Industrial Gateway COSY131 WAN/LAN/USB + Cellular 4G NA
EC6133F	Industrial Router COSY131 WAN/LAN/USB + Cellular 4G APAC

