INDUSTRIAL VPN ROUTER

eWON Cosy 141

Highlights

- Easy setup using customer's LAN

- Firewall friendly

- Standard ports used: 443 (HTTPS), 1194 (UDP)

- Possibility to control VPN access with external key switch

- Plug'n Route on LAN: easy connection of Ethernet devices without the need to configure the gateway

- Full industrial design (24 VDC power supply, DIN Rail mounting)
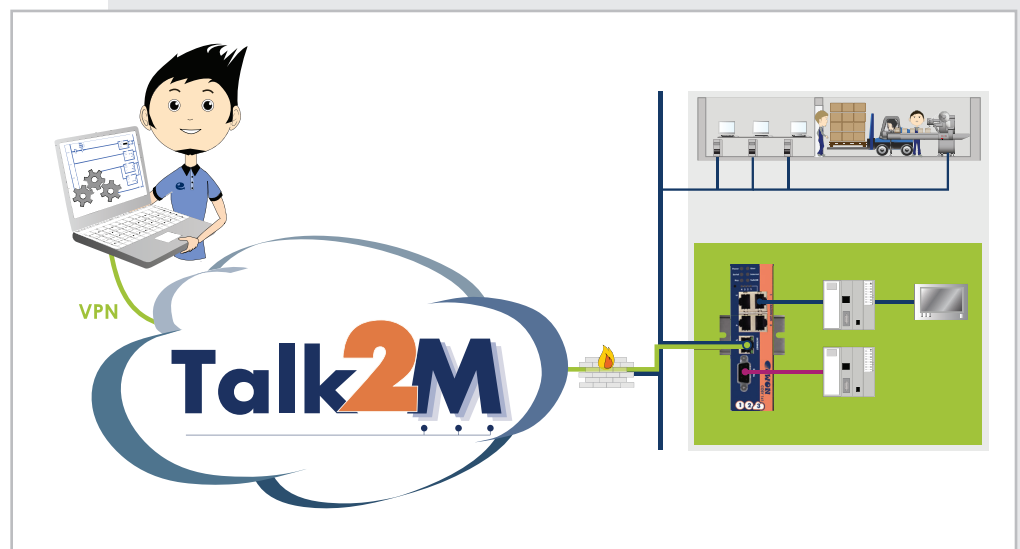
Typical Applications

- Remote access to PLC/HMI/IPC/IP camera/...

- PLC remote maintenance

The eWON Cosy (COmmunication made eaSY) is an industrial VPN router that is designed to offer easy remote access, across the Internet, to machines and installations at customers or in the field.

With eWON Cosy, OEMs and System Integrators can troubleshoot machines, debug the PLC program, upload projects, gain remote use of an HMI or an IP camera, without going on site, drastically reducing support costs.

The eWON Cosy is fully compatible with Talk2M, eWON's cloud-based remote connectivity service. Talk2M provides a secure VPN communication route between the user and the remote machine. eWON Cosy and Talk2M make working across the Internet easy, so the user does not need to be an IT expert to take advantage of it.

Ethernet to Serial Gateways	MODBUS TCP to MODBUS RTU; XIP to UNITELWAY; EtherNet/IP™ to DF1; FINS TCP to FINS Hostlink; ISO TCP to PPI, MPI (S7) or PROFIBUS (S7); VCOM to ASCII
Router	IP filtering, IP forwarding, NAT, Port forwarding, Proxy, Routing table, DHCP client,
Internet	Outbound connection to Talk2M using HTTPS (port 443 or UDP 1193)
VPN Tunnelling	Open VPN 2.0 either in SSL UDP or HTTPS
VPN Security	The VPN security model is based on using SSL/TLS for session authentication and the IPSec ESP protocol for secure tunnel transport over UDP. It supports the X509 PKI (public key infrastructure) for session authentication, the TLS protocol for key exchange, the cipher-independent EVP (DES, 3DES, AES, BF) interface for encrypting tunnel data, and the HMAC-SHA1 algorithm for authenticating tunnel data.
Synchronization	Embedded real-time clock, manual setup via http or automatic via NTP
File Management	FTP client and server for configuration, firmware update and data transfer
Web Site	Embedded web interface with setup wizards for configuration and maintenance (no extra software needed). Basic authentication (login/ password) and session control for security. Possibility to upload custom web GUI.
Maintenance	SNMP V1 with MIB2 and/or via FTP files
Mechanicals	Din Rail Mounting Dimensions : 129(Height) x 108(Depth) x 39(Width) mm; Weight : <500gr
Electrical (common)	Power supply 12 - 24VDC +/-20%, SELV
Temperature range	Operating: -20°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	1x SUBD9 serial port RS232/422/485 not isolated or MPI/Profibus port isolated (12Mbits) 1x RJ45 WAN Ethernet 10/100 base Tx; 1,5kV isolation 4 x RJ45 LAN Ethernet 10/100 base Tx (integrated Switch); 1,5kV isolation 1x digital input: 0/24VDC; 1,5kV isolation 1x digital output: open drain (MOSFET) 200mA@30VDC; 1,5 kV isolation
Certifications	CE, cCSAus
Warranty	18 months

Standards & Directives

Type tests	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 Vibration & shocks tested according to: IEC 60068-2-29 Bump IEC 60068-2-64 Vibration (broad-band random)
Environmental	Conform to: 2011/65/EU RoHS directive 1907/2006 REACH regulation

EMC	Conform to:
	2004/108/EC EMC directive
	1999/5/EC R&TTE directive(1)
	FCC regulation
	according to standards:
	EN55022 ITE Emission Class A
	EN55024 ITE Immunity ; EN61000-6-2 industrial environment
	EN61000-4-2 ; EN61000-4-3 ; EN61000-4-4 ; EN61000-4-5 ; EN61000-4-6 ; EN61000-4-8
	R&TTE Art 3.1b(1) EMC
	EN 301 489-1 ; EN 301 489-7 ; EN 301 489-24
	R&TTE Art 3.2(1) RF Spectrum
	EN 301 511 ; EN 301 908-1 ; EN 301 908-2
	FCC CFR 47:
	Part 15 Subpart B – Class A ; Part 22 Subpart H[1] ; Part 24 Subpart E[1]
Safety	UL 60950-1
	CSA-C22.2 No 60950-1-07
	IEC/EN 60950-1
	cCSAus certified (File number # 227905)
	CB certificate n° NL-17173/M1

Product References

EC514x0	X = 1 with serial port RS232, 422 or 485 not isolated
	x = 6 with MPI/Profibus (S7) port (12Mbits)