**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.

www.ewn.biz
### 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 : <500 gr

### 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

ECS14x0

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