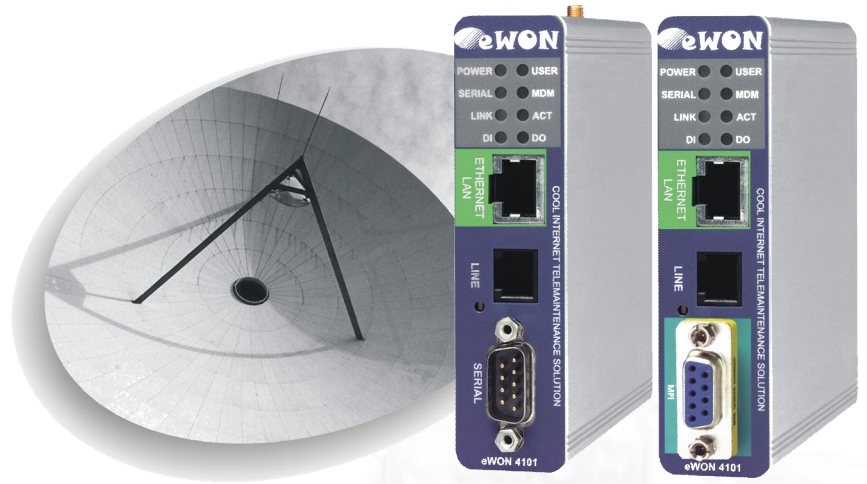


You select...
You
 We connect
 We

Talk2M ready!

eWON 4101

Advanced Industrial Internet Router



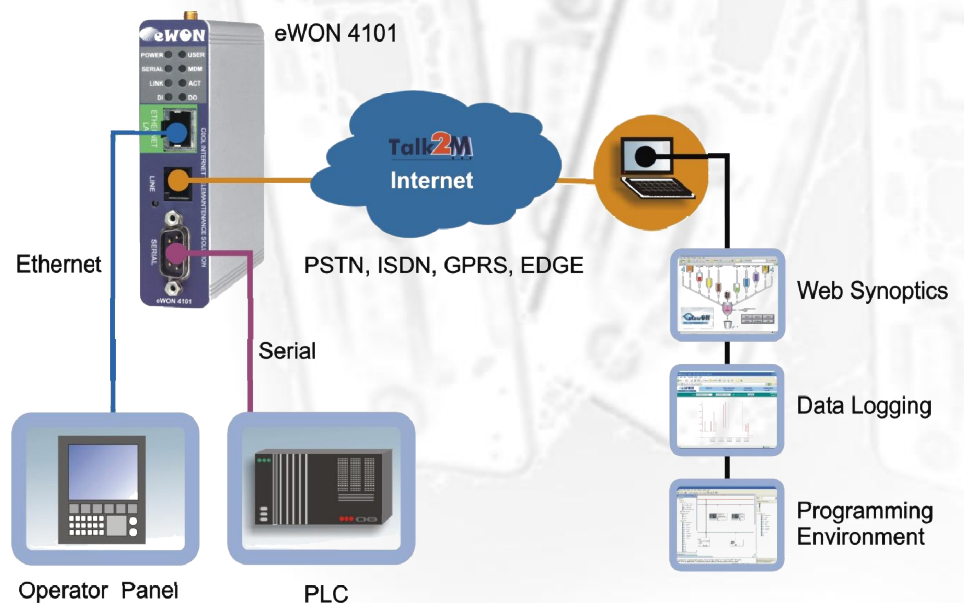
Highlights

- Internet Dialling within secure tunnelling connection (VPN)
- Isolated Ethernet (RJ45) and Serial (DB9) interfaces supporting numerous PLC protocols
- Embedded PSTN, ISDN, GPRS or EDGE modem
- Alarms management on PLC variables, with notification (SMS, email, FTP put or trap SNMP)
- Historical Logging & Reporting features
- Compatible with viewON 2, web HMI with animated synoptics
- Configuration by embedded web pages or FTP upload
- 1 x digital input (alarms) and 1 x digital output
- Full industrial design (24 VDC Power supply, DIN Rail mounting)

eWON 4101 is the Advanced Industrial Internet Router for the machine builder, OEM, infrastructure, utilities, and system integrator markets, offering full Internet access to any PLC or automation device through serial or Ethernet port. Seamlessly integrated with the PLC programming environment, eWON 4101 still monitors and collects data into internal tags while PLC maintenance is performed. eWON 4101 has both Web and FTP servers embedded as well as an independent alarm management system, data logging and Web synoptic capabilities.

Typical Applications

- Internet router through an Internet Service Provider (ISP) connection
- PLC maintenance through local ISP calls (no more international calls)
- Data logging & alarms for remote diagnostics; Web HMI animated web synoptics for remote monitoring



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 ¹ (S7); VCOM / ASCII
Data Acquisition Protocols	In MODBUS/RTU, MODBUS/TCP, Unitelway, DF1, PPI, MPI (S7), PROFIBUS ¹ (S7), FINS Hostlink, FINS TCP, EtherNet/IP™, ISO TCP, ASCII. Stored in 350 internal tags
Alarms	Alarms notification by email, FTP put and/or traps SNMP. Threshold: low, lowlow, high,highhigh + deadband and activation delay. Alarms logs in http and via FTP Alarms cycle: ALM, RTN, ACK and END
Data Logging	Internal data base for data logging (Real-time logging and historical logging up to 130.000 points). Retrieval of the database with files transferred by FTP or email
Router	PPP dial-in, Internet PPP dial-out on demand, IP filtering, IP forwarding, NAT, Port forwarding, Proxy, Routing table
Internet	Through RAS connection (PPP), primary and secondary ISP (Internet Service Provider) connections, supports DNS and DynDNS
Call Back	Via ISP (Internet Service provider) connection on user request or on number of rings
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
RAS Connection	PPP (Point-to-Point) Protocol with PAP/CHAP security and data compression
Script	Script interpreter for Basic language with development tools
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	Security: Basic authentication and session control. HTML standard, supports PDA browsers. eWON system and user customizable Web sites. SSI technology (Server Side Include) and Basic scripted ASP (Active Server Pages). HTTP server. Also HTTP client allowing HTML Get & Put requests onto remote HTTP servers.
Maintenance	SNMP V1 with MIB2 and/or via FTP files
Hardware	ARM processor @75Mhz, 16Mb SDRAM, 16Mb Flash, Din Rail Mounting Power supply 12 - 24VDC +/-20%, SELV; consumption: 3-6 watts 1x SUBD9 serial port RS232, RS422, RS485 isolated or MPI/PROFIBUS ¹ (S7) port isolated (limited to 1,5Mbits) 1x RJ45 Ethernet 10/100 baseTx; 1,5kV isolation 1x digital input: 0/24VDC; 3,5kV isolation 1x digital output: open collector 200mA@30VDC; 3,5 kV isolation Embedded modem: PSTN 56kbds or ISDN or Dual band GPRS or Quad band EDGE Operating Temperature range: 0° to 50°C, optional extended temperature range (-20 to 70°C - on request) available, 80% humidity (no condensation). Dimensions : 120(Depth) x 105(Height) x 26(Width) mm; Weight : <300gr CE, UL labelled

Product Ref.: EW432xy-z	- x = 0 with serial port RS232, 422 ou 485	- x = 6 with MPI/PROFIBUS ¹ (S7) port
	- y = 3 ISDN EU modem (on request)	- y = 4 PSTN 56kbds modem
	- y = 5 GSM/GPRS EU modem	- y = 6 GSM/GPRS US modem
	- y = 7 EDGE quad band modem	
	- z = 6 without Web HMI Dynamic synoptics option, otherwise leave blank	

1 A brief disturbance on the Profibus network can be caused by this eWON model when switching on/off. For a stand alone device, this is not a problem. But if the Profibus network is used for intercommunication between Profibus and Slave devices, the Siemens CPU might change into STOP mode if the network errors are not handled inside the CPU program (OB85 & OB86).

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