

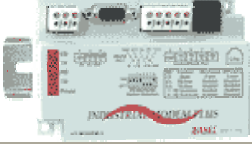


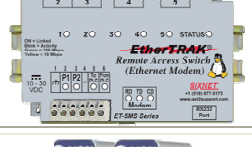





<p>VT-MODEM-1 SIXNET General Purpose 33.6K (V.34)</p>		<p>Dette modem er en arbejdshest for de fleste industrielle formål. Den understøtter hastigheder op til 33,6K (V.34)</p>
<p>VT-MODEM-2 SIXNET PLC Self-dialing</p>		<p>Dette kan automatisk ringe op fra en lukket forbindelse fra enhver PLC eller anden enhed.</p>
<p>VT-MODEM-3 SIXNET RS422 / RS485 & Extender Power</p>		<p>Dette modem har en RS422/485 port udover en RS232 port. Det accepterer også strøm op til 52Vdc.</p>
<p>VT-MODEM-4 SIXNET Leased-Line</p>		<p>Dette modem understøtter en 2-wire leased-line. <i>(Note: Skal bruges i par. Er ikke kompatibelt med andre mærker af leased-line modems.)</i></p>
<p>VT-MODEM-5 SIXNET Advanced 56K (V.92)</p>		<p>Dette understøtter hastigheder op til 56K og avanceret egenskaber så som f.x. call-back sikkerhed og kan fjernkonfigureres.</p>
<p>MODEM med Managed 5 port Industrial Ethernet Switch SIXNET</p>		<p>Kombineret modem og 5 port managed Ethernet switch</p>
<p>eWon 2001 eWon</p>		<p>GSM / GPRS / ISDN / PSTN RS232, 485, 422 seriel porte eller MPI porte</p>
<p>eWon 4001 eWon</p>		<p>GSM / GPRS / PSTN modem RS232, RS485 Ethernet 10/100Mb</p>
<p>eWon 2101 eWon</p>		<p>GSM / GPRS / ISDN / PSTN modem RS232, 485, 422 porte eller MPI port Ethernet 10/100Mb port RJ45</p>

SIXNET

Primary Functionality / VT-MODEM	-1 General Purpose	-2 Self- Dialing	-3 RS422/ RS485	-4 Leased- Line	-5 Advanced 56K V.92
Dial-up and auto-answer to 33.6K (V.34)	✓	✓	✓	✓	✓
Auto-dials on simple contact closure	-	✓	-	-	-
RS422/485 port for 2 or 4 wire links	-	-	✓	-	-
Extended power input up to 52VDC	-	-	✓	-	-
Leased-line (2-wire only)	-	-	-	✓	-
Speeds up to 56K (V.90 & V.92)	-	-	-	-	✓
Remote configuration	-	-	-	-	✓
Call-back security	-	-	-	-	✓

eWON

	GSM DATA	Public GPRS AON	Public GPRS APN with public IP address	Private GPRS APN
eWON 2001 eWON 4001	OK	Restriction Rush data ONLY	Restriction Security issues Firewall Issues	OK
eWON 2101 eWON 4101	-	OK eSYNC VPN server is required	OK eSYNC VPN server or eCatcher is required	-

Designed to Work Reliably in the Toughest Environments

SIXNET Industrial Telephone Modems

eliminate the difficulties encountered with installing office-grade modems in industrial settings. These ruggedized modems connect to any PLC, RTU or other industrial equipment and provide the important features you have been looking for.

- Rated for -30° to +70°C operation
- Proven in the toughest settings from pipelines in Alberta to remote locations in Sweden
- DIN Rail or flat panel mounting
- DC powered - No more bulky AC adapters
- Supports all PLCs, RTUs and other devices
- Five year guaranteed availability for OEMs
- Compliant with telephone systems world-wide
- Certified to perform:

SIXNET Modems will:

- ✓ Reduce Your Design Time
- ✓ Simplify Your Installation
- ✓ Increase Your Reliability



Select the model that best fits your needs:

General Purpose	PLC Self-dialing	RS422 / RS485 & Extended Power	Leased-Line	Advanced 56K (V.92)
VT-MODEM-1 is the workhorse for general industrial applications. It supports baud rates up to 33.6K (V.34).	VT-MODEM-2 can automatically dial out on a contact closure from any PLC or other device.	VT-MODEM-3 has a RS422/485 port in addition to the RS232 port. It also accepts power up to 52 VDC.	VT-MODEM-4 supports 2-wire leased-line connections up to 33.6K.	VT-MODEM-5 provides advanced features such as call-back security and remote configuration.



INDUSTRIAL MODEMS MAKE YOUR JOB EASIER!

Why an Industrial Telephone Modem?

SIXNET industrial telephone modems are designed for industrial environments. Their rugged packaging and protected circuitry keep them working under conditions that may cause cheap office-grade modems to fail. Industrial applications are demanding - it gets hot, it gets cold - the power browns out or spikes wildly - and you need a reliable industrial modem that can keep on going.



Industrial modems survive heat & cold

SIXNET industrial modems work reliably through the dead of winter to those hot summer days. Unlike ordinary modems that are intended only for use in air conditioned offices, SIXNET industrial modems are designed for those places that you don't want to be - over the temperature range of -30 to 70°C.

PC Software compatibility guaranteed

SIXNET industrial modems contain an industrial version of the same modem chip-set found in PC internal modems. They support the full set of modem (AT) commands, protocols and operating features, and are 100% Windows software ready.

Forget the Velcro and makeshift brackets

SIXNET industrial modems can be DIN rail or direct panel mounted. Their compact footprint fits easily into equipment-filled enclosures.

Lose those bulky power transformers

SIXNET industrial modems run directly on the DC power that you already have in your control cabinet. Get rid of those cumbersome AC outlet transformers. No AC power means fewer safety issues. If you ship your equipment internationally, you can forget about the headaches caused by different line voltages and incompatible power plugs.

Stop redesigning your OEM products

Have you ever qualified a system only to find that the modem you used is no longer available? SIXNET guarantees availability of these modems for a minimum of five years. Design your system just once!

A simple solution for global business

Forget about the troubles of supplying different modems for each country. SIXNET industrial modems are compliant with telephone systems around the world. Simplify the logistics of your worldwide business and improve your bottom line.

System Integrators increase profits

System Integrators are putting SIXNET industrial modems in every PLC cabinet they design or service. Now, you can make program changes and get your customer's systems running without leaving your office. Your customers will be delighted with your quick service and you will love the cost savings of not having to make a site visit.

VT-MODEM Selection Guide

Main Functionality	-1	-2	-3	-4	-5
Dial-up and auto-answer	✓	✓	✓	✓	✓
Auto-dial on PLC output	-	✓	-	-	-
RS422 / RS485 interface	-	-	✓	-	-
Extended power input (up to 52 VDC)	-	-	✓	-	-
Leased-line* (2-wire only)	-	-	-	✓	-
Speeds up to 56K (V.90 & V.92)	-	-	-	-	✓
Remote configuration	-	-	-	-	✓
Call-back security	-	-	-	-	✓

* The VT-MODEM-4 is intended for use in pairs and may not be compatible with other brands of leased-line modems

VT-MODEM Compared to Office-grade Modem

The Industrial Features That Make Your Job Easier!	SIXNET Industrial Modems	Typical Office-grade Modem
Auto -dials on simple contact closure	YES	NO
Accepts VDC power directly	YES	NO
Does not need cumbersome wall mount transformer	YES	NO
DIN Rail or flat panel mounting	YES	NO
UL508, UL1604 and DNV rated	YES	NO
Compliant with most international systems	YES	NO
Rated for industrial environments	YES	NO
Operates outdoors without a heater (-30° C)	YES	NO
Survives extreme heat (+70° C)	YES	NO
Includes internal surge protection	YES	NO
Class I, Div. 2 (Zone 2) hazardous location rated	YES	NO
Guaranteed long-term support	YES	NO
Designed to make your job easier!	YES	NO

VT-MODEM Ordering Information

Modem Model Part Number: VT-MODEM-###	US Part #	Price	EC Part #	Price	World-wide Part #	Price
General purpose; dial-up to 33.6K (V.34)	-1US	US\$340	-1EC	US\$340	-1WW	US\$360
PLC self-dialing and auto-answer to 33.6K	-2US	US\$450	-2 EC	US\$450	-2 WW	US\$470
RS422 / RS485 port and 10-52 VDC power	-3US	US\$410	-3 EC	US\$410	-3 WW	US\$430
Leased-line (2-wire only)	-4US	US\$340	-4 EC	US\$340	-4 WW	US\$360
Advanced 56K (V.92 and V.90)	-5US	US\$410	-5 EC	US\$410	-5 WW	US\$430
Extended Warranty	Extend the warranty from 12 to 36 months			VT-CARE-36	US\$35	

Note: All modems include a RS232 modem cable (DB9) and complete Windows software CD, at no extra cost.

Location Codes:

- US For use in U.S., Canada, Mexico, Central and South America
- EC For use in Europe, Asia, Africa, Australia and New Zealand
- WW For world-wide use. OEMs install and test it here — use it there.

Performance Specifications

Telephone Line

Max. data rate	33.6 kbps for -1, -2, -3 & -4; 56 kbps for -5
Compatibility	V.90, V.92 (-5 only); V.34, V.32 bis, V.32, V.22, V.22A/B, V.23, V.21, Bell 212A and 103
Data compression	V.44; V.42 bis, MNP 5
Error correction	V.42 MNP 2-4
Max. fax rate	14.4 kbps for -1, -2, -3 & -4; 33.6 kbps for -5
Fax capabilities	Group 3 (V.33, V.17, V.29, V.27 ter, V.21)
Ringer & jacks	0.3 & RJ11 (line and auxiliary)

RS232 Port

Max. RS232 Rate	115.2 kbps for -1, -2, -3 & -4; 230 kbps for -5
RS232 (DCE)	TD, RD, CTS, RTS, CD, DTR, DSR, RI, GND
Command Set	Standard AT and S register (see help)
Status LEDs	CD, DTR, RD, TD, Power

PLC Discrete I/O Interface (VT-MODEM-2 Only)

"Trigger" Input	Starts auto-dialing when TRUE
Voltage range	9 to 30 VDC (6.5 mA at 24 VDC)
Max OFF voltage	5 VDC
"On-line" Output	Output is ON when connection exists
Output type	Sourcing — switches supply power
Output current	100 mA maximum

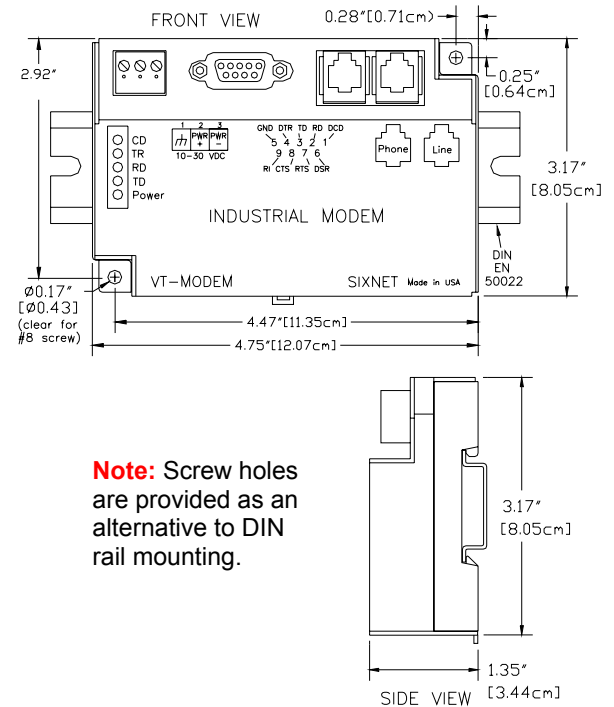
RS422 / RS485 Port (VT-MODEM-3 Only)

RS422 mode	Supports 4 wire full duplex
RS485 modes	2 or 4 wire party-line operation
Signal rate	Standard rates up to 115.2 kbps
RS422/485	Up to 0.5 miles

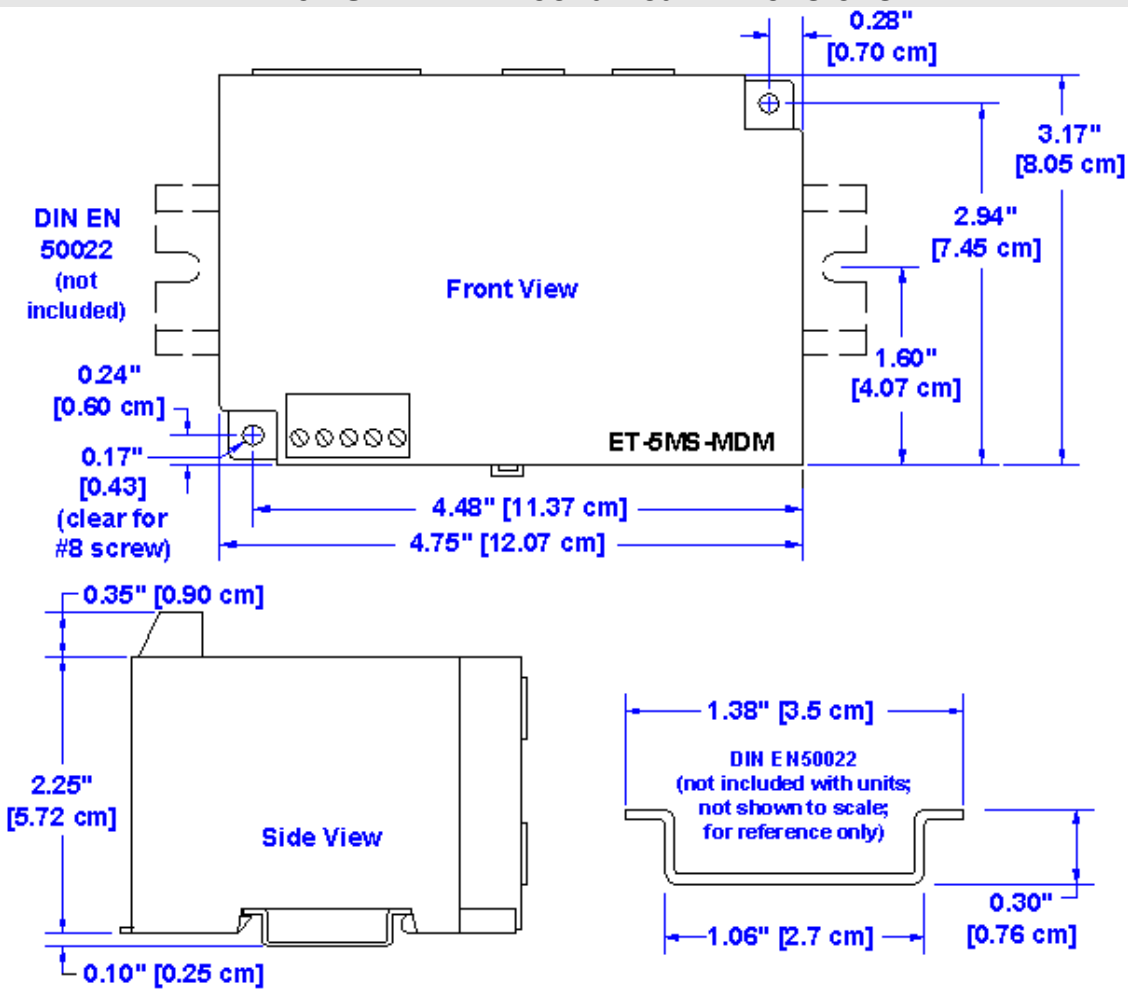
General Characteristics

Input voltage	10-30 VDC for -1, -2, -4 & 5; 10-52 VDC for -3
Input current @ 24 VDC (typical)	50 mA (Sleep mode 30 mA): -1,-2,-3 (Rev.3) 75 mA (Sleep mode 50 mA): -4, -5
Operating Temp.	-30° to 70°C (Storage: -40° to 85°C)
Humidity	5% to 95% RH (non-condensing)
Flammability	UL 94V-0 materials
Telecom Ratings	FCC part 68, Industry Canada CS03-8, CTR21 (98/482/EC); ACA TS 001; ACA TS 002
Electrical Safety	UL 508, CSA C22.2/14; EN61010-1 (IEC1010), IEC 950, AS/NZS3260
EMI emissions	FCC part15, ICES-003, Class A; EN55022; AS/NZS3548
EMC immunity	EN50082-1 (IEC801-2, 3, 4)
Vibration	IEC68-2-6
Hazardous locations (Zone 2)	UL1604, CSA C22.2/213 (Class I, Div 2, Groups A, B, C, D); Cenelec, EN50021 (EEx nA II T4)
Mounting	DIN rail or panel mount

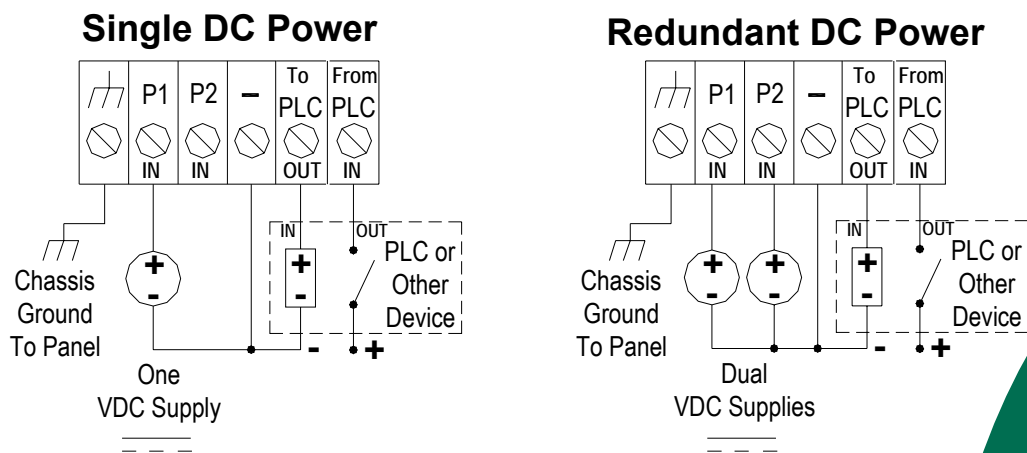
Mounting Dimensions



ET-5MS-MDM-1 Mechanical Dimensions



ET-5MS-MDM-1 Power and Alarm Connections



Remotely Access your Ethernet Network through a Phone Connection

The ET-5MS-MDM-1 combines a SIXNET Industrial Telephone Modem with a SIXNET Industrial Managed Switch. This powerful combination allows you to easily and securely access your Ethernet network from any remote location over standard telephone lines.

Save Time and Money

The ET-5MS-MDM-1 allows you to avoid those costly site visits and respond to network situations immediately! Now you can perform remote diagnostics and maintenance from the comfort of your office, home or another facility.

Real-time Secure Performance

- Advanced PSTN modem features
 - Make easy and secure dial-in connections
 - Automatic dial-out on a trigger input
 - Connection speeds up to Fast 56K (V.90)
 - Full data compression and error control supported
 - Compliant with telephone systems world-wide
- Advanced Ethernet switch features
 - Five 10/100 fast Ethernet ports
 - Auto-speed/duplex, auto-crossover & auto-polarity
 - Plug and play operation or full management ability
 - RSTP, VLAN, IGMP, QoS, SNMP and more
- Easy configuration with web or terminal interfaces
- Secure connections with HTTPS, SSL, SSH, SNMPv3 ...

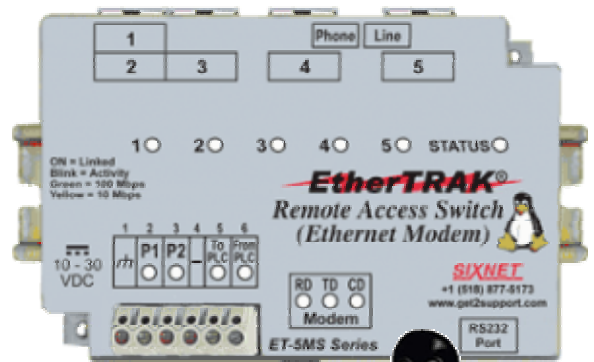
Trouble Free Operation

- High Mean Time Between Failure rating
- Twenty year support and service policy
- Free field-installable upgrades forever
- -40 to +75 °C operation – no fans or moving parts!
- UL, CSA (CUL), and CE certified
- Marine, offshore and hazardous locations rated
- Enhanced surge and spike protection
- Dual (redundant) power inputs
- Alarm output and trigger input for PLC (or other device)

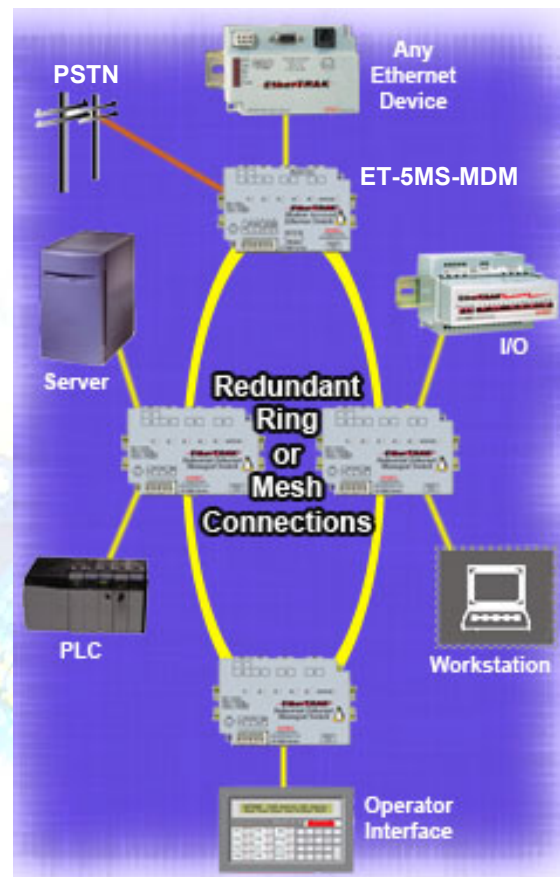
Certified to Perform:



5 Ethernet Ports with Integrated Phone Modem




The Power of Linux IPm Inside



Remote Access Switch – (Ethernet Modem)

Performance Specifications

Performance Specifications		
Industrial Ethernet Switch	5 Ethernet ports	
Ethernet switch type	Managed	
Ethernet protocols supported	All IEEE 802.3	
RJ45 ports (shielded)	10/100BaseTX	
RJ45 speed (10 or 100 Mbps)	Auto-negotiation	
RJ45 MDI/MDIX	Auto-crossover	
RJ45 TD and RD polarity	Auto-polarity	
Typical latency for 10 Mbps ports	16 us + frame time	Varies on load & settings
Typ. latency for 100 Mbps ports	5 us + frame time	
Full or half duplex operation	Configurable	
MAC addresses supported	2048	
Memory bandwidth	3.2 Gbps	
Industrial Telephone Modem	PSTN modem	
Maximum data rates	56 Kbps	
Compatibility	V.90, V.34, V.32, V.32 bis, V.22, V.22 bis, V.21	
Data compression	V.42 bis	
Error correction	V.42 MNP or LAP	
Ringer	0.3	
Jacks	2 RJ11 (phone and line)	
Command sets	Standard AT and S register	
Country compatibility	World-wide (100+ countries)	
Telecom ratings	FCC Part 68; Industry Canada CS03-8; CTR21 (98/482/EC); ACA TS 001 and ACA TS 002	
RS232 Management Port	RJ45 port	
Fixed baud rate, data bits, parity, stop bits, flow control	9600 Bps, 8, None, 1, None	
“PLC” Input and Output	Trigger (in) & alarm (out) signals	
PLC / Alarm output voltage	Same as switch input power voltage	
Maximum current output	0.5 Amp	
PLC / Trigger input voltage	10-30 VDC	
Typically current input	6.5 mA @ 24 VDC	
Environmental	DIN rail or direct panel mounting	
Power input	Redundant input terminals	
Input power (all ports active)	5.0 W typical	
Input voltage (all models)	10-30 VDC (continuous)	
Transient protection	15,000 watts peak	
Spike protection	5,000 watts (10 times for 10 uS)	
Ethernet isolation	1500 VRMS 1 minute	
Operating temperature range	-40 to +75 °C	
Storage temperature range	-40 to +85 °C	
Humidity (non-condensing)	5 to 95% RH	
Vibration	IEC68-2-6	
Electrical safety		UL508/CSA C22, EN61010-1
EMI emissions		FCC part 15, ICES-003, EN55022
EMC immunity		IEC61326-1, EN50082-1
Hazardous locations	UL1604, CSA C22.2/213 (Class 1, Div. 2), Cenelec EN50021 (Zone 2)	
Packaging (Lexan & alum. case)	IP30 protection	
Dimensions (L x W x H)	See following page	

Specifications are subject to change. Consult factory for latest information.

Hardware Highlights:

- 5 port industrial Ethernet managed switch with integrated industrial telephone modem
- Output for reporting power and operational status
- Input for triggering automatic dial-out operation
- Redundant power inputs and surge/spike protection
- Industrial rated for -40 to +75 °C operation (no fans!)
- UL/CSA, CE and Zone 2 rated for hazardous locations
- Rated for marine and off-shore use
- DIN rail or direct panel mounting (no extra kits required)

Telephone Features:

- Dial-in and automatic dial-out capabilities
- PPP (Point-to-Point Protocol) for dial-up connections
- Fast phone connections up to 56 Kbps
- Full data compression and error correction options

Networking Features:

- Auto-detecting, auto-crossover and auto-polarity
- Store and forward wire speed switching
- Support for up to 2048 MAC addresses
- Full-Duplex operation with flow control (no collisions!)
- Rapid Spanning Tree (RSTP) for fault-tolerant loops
- Priority queuing (QoS) for real-time performance
- SNMP v1 and V2 for network management
- SNMP v3 for authentication and encryption
- SNMP notifications (traps) for report on event
- IGMP v1 & v2 for IP multicast filtering
- VLAN (port & tag based) for traffic segregation
- Message filtering to stop broadcast/multicast storms
- DHCP client for automatic IP address assignment
- RMON and port mirroring for diagnostics
- Configuration via secure (https) Web interface, Telnet / SSH (network), terminal (RS232) or SNMP (v1, v2, v3)
- Router Information Protocol (RIP)

Ethernet Compliance:

- IEEE 802.3 (10Mbps Ethernet supports legacy devices)
- IEEE 802.3u (Fast Ethernet 100Mbps for newer devices)
- IEEE 802.3x (Full-Duplex with Flow Control)
- IEEE 802.1D/w (Rapid Spanning Tree for redundant rings and Spanning Tree for interoperability)
- IEEE 802.1p (Priority Queuing – QoS, CoS, ToS/DS)
- IEEE 802.1Q (VLAN for traffic segregation)

Additional features are in the works and are provided through FREE Firmware Upgrades. Contact SIXNET for the latest information.

Ordering Guide

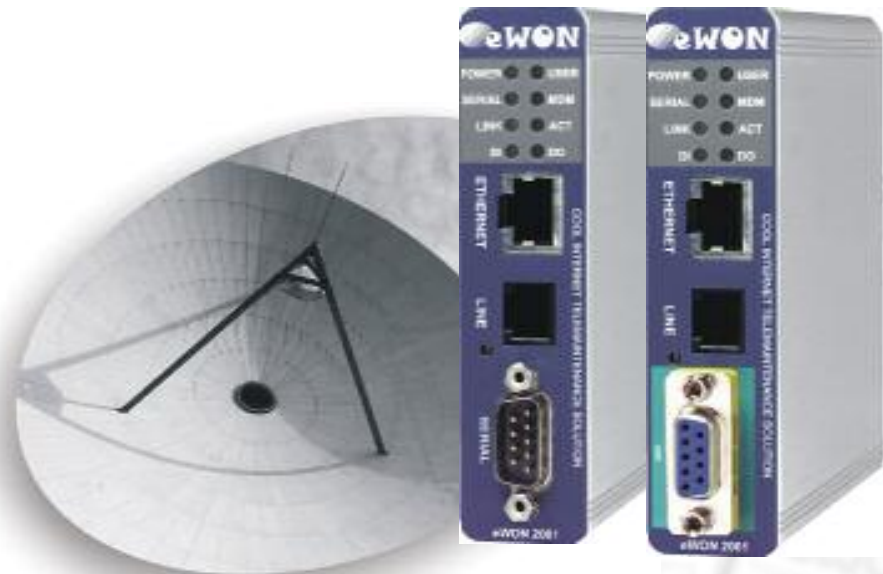
Part Number: ET-5MS-MDM-1

Accessories:

ET-PS-024-02	Power supply – AC to 24VDC, 2A
SP-ETH-2	2 port Ethernet lightning protector
SP-TELCO-1	1 port phone lightning protector



eWON2001 Industrial IP Router



- You select...
We connect
we
- Embedded PSTN, ISDN, GSM/GPRS modem
 - Ethernet 10/100Mb port RJ45
 - RS232,485,422 serial port or MPI port
 - Transparent gateway:
 - MODBUS TCP/RTU
 - FINS TCP/Hostlink
 - ISOTCP / MPI,PPI
 - EthernetIP /DF1
 - XIP /Unitelway
 - Alarms managements on PLC variable
 - Alarms Notification by SMS, email or trap SNMP
 - Embedded firewall
 - 24 VDC Power supply, Rail DIN mounting
 - 1 x digital Input (alarms) and 1 x Digital Output (fail Safe)
 - Configuration by Web Page

Typical Applications

- Industrial TCP/IP Router
- PLC Remote Maintenance (teleservice) by PSTN, ISDN, GSM/GPRS
- Alarms management and notification

PLC and Device Support

- Schneider TSX Premium & Micro with UNITELWAY and XIP
- Schneider TWIDO with MODBUS/RTU
- Schneider Momentum/Quantum with MODBUS TCP and RTU
- Wago I/O modules with MODBUS TCP or RTU
- Siemens S7-200 with PPI, Siemens S7-300/400 with MPI and ISOTCP
- Allen Bradley SLC500 and Logix family with DF1 and EthernetIP
- Omron CJ and CS with FINS TCP/UDP and FINS Hostlink
- LEM QWave power quality analyzer and much more...

Highlights

- PLC Remote maintenance on the programming serial port with the original PLC Software
- PLC Remote maintenance on the Ethernet port with the original PLC Software
- Tagnames data acquisition by Modbus, DF1, FINS Hostlink, PPI, MPI, Unitelway serial protocol and ISOTCP, EIP, MODBUS TCP, FINS TCP Ethernet protocol
- Alarms management on user threshold and notification by email, FTP put and SNMP trap
- Configuration by Embebbed Web Page

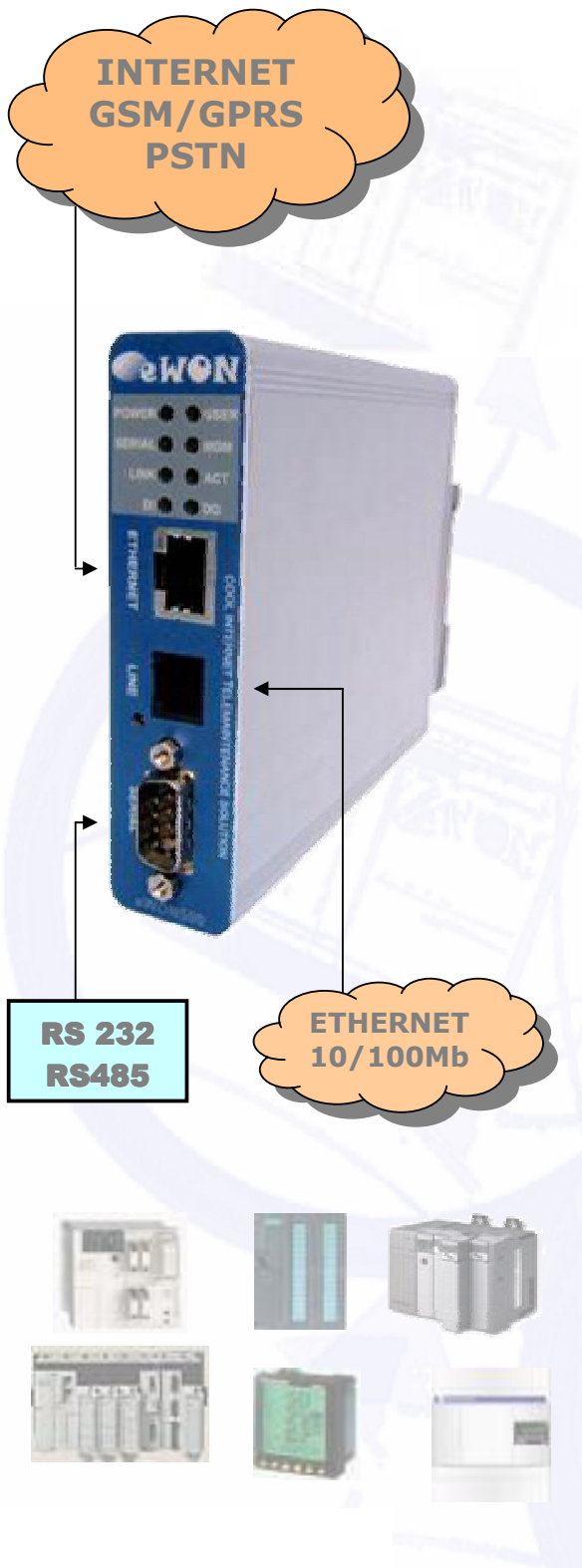
Gateways Ethernet/serial	<ul style="list-style-type: none"> - MODBUS TCP / MODBUS RTU - XIP / UNITE - Ethernet IP / DF1 - FINS TCP / FINS Hostlink - ISO TCP / PPI-MPI - VCOM / ASCII
Programmable Gateways	MPI, PPI, DF1, Unitelway, FINS Hostlink to MODBUS/TCP or SNMP ASCII dedicated protocol to FTP, SNMP, MODBUS/TCP.
Data Acquisition	Data Acquisition (Tagnames) in MODBUS/RTU, MODBUS/TCP, Unitelway, DF1, PPI, MPI, FINS Hostlink, FINS TCP, Ethernet IP, ISO TCP, ASCII Protocol.
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, ACQ et END.
Script	Dedicated application to be programmed with the Basic language.
Synchronization	Embedded real-time clock, manual setup via http or automatic NTP setup
File Management	FTP client and server for configuration, firmware update and data transfer.
Web Site	Security: DAA and session control. HTML standard supports all of the PDA browsers. eWON system and user Web site.
MPI	MPI embedded controller certified up to 1,5 Mbds
Maintenance	SNMP V1 with MIB2 and/or via FTP files
Materials	<p>ARM processor @75Mhz, 16Mb SDRAM, 8Mb Flash, Din Rail Mounting Power supply 12 - 24VDC +/-20%, SELV; consumption: 3-6 watts 1x SUBD9 serial port RS232, RS485 not isolated or MPI port isolated. 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</p> <p>Embedded modem : PSTN 56kbds, ISDN or GSM/GPRS class10</p> <p>Operating Temperature range: 0° to 50°C, 80% humidity (no condensation). Dimensions : 120(Depth) x 105(Height) x 26(Width) mm; Weight : <300gr CE, UL labelled</p>

Product Reference

Reference EW212xy	where
	- x = 0 with serial port RS232, 422 ou 485
	- x = 6 with MPI port
	- y = 4 PSTN 56kbds embedded modem
	- y = 5 GSM/GPRS EU embedded modem
	- y = 3 ISDN EU embedded modem

eWON4001

Internet Remote Management



PLC Remote Maintenance

- Schneider TSX Premium & Micro with UNITELWAY
- Schneider TWIDO with MODBUS/RTU
- Schneider Momentum/Quantum with MODBUS
- Wago I/O modules with MODBUS
- Siemens S7-300/400 with MPI (via eLINK)
- Allen Bradley with DF1
- Any PLC/Equipment with Ethernet TCP/IP

Remote Service

- Data Acquisition with UNITE, MODBUS, DF1, MPI
- Data logging in internal data base
- Alarms on limits to be configured
- Notification by email, SMS, FTP put and SNMP trap
- Report emission (maintenance, worked time...) preconfigured in Word, Excel, Html, CSV
- Remote MMI (Light Client) by browser, PDA...
- System and user defined Web pages

Remote Control

- Data retrieval in data base via FTP
- Applications in ASP mode
- SCADA or supervision software

RAS modem, IPR

- PPP remote access with PAP, CHAP support
- Embedded firewall, NAT
- IP address filtering
- TCP/IP routing table
- Classical point to point callback
- Internet callback

Configuration

- By embedded system Web pages
- FTP files upload and download

Characteristics

- 1 x digital input
- 1 x digital output
- Ethernet port 10/100Mb
- Serial port RS232, RS422 or RS485
- Embedded modem in option: PSTN, GSM/GPRS

Remote Maintenance	PLC point to Point RAS or Internet remote access: <ul style="list-style-type: none"> - Premium & Micro with PL7pro - Twido with Twidosoft - Momentum and Quantum with Concept - Wago I/O modules with Wago I/O Pro 32 - S7-300 and S7-400 with Simatic Manager STEP7 (via eLINK) - Allen Bradley with RSLogix and any PLC / device / equipment with TCP/IP
Remote Service	Data acquisition (Tagnames) in MODBUS/RTU, MODBUS/TCP, UniTelWay, DF1, MPI (via eLINK) & serial ASCII Protocol. 'Tagnames' enable alarm management, Basic programming, custom Web pages, reporting...
Data Logging	Internal data base for data logging 21.000 points. Retrieval of the data base with files transferred by FTP put or email attachment.
Alarms	'Tagname' database: 128Kb. Alarm Notification by email, SMS, FTP put and/or SNMP trap. Available standard limits to configure: Very Low, Low, High, Very High + Dead zone and activation delay. Alarm summary and historian available in HTTP and via FTP files transfer. Alarm cycle management: ALM, RTN, ACQ and END.
MMI	HTTP: System and user defined Web site. SNMP: 'TagName' read/write FTP: whole set of parameters are available in files
CallBack	Call back on user request or on amount of rings. Direct or Internet call back (supports dynamic DNS)
FireWall	IP filtering
Script	Dedicated application to be programmed with the Basic language.
Router	IP forwarding, NAT, port forwarding and routing tables.
Internet	RAS connection (PPP), PAP/CHAP security. Data compression, ISP connection (Internet Service Provider) primary et secondary, supports DNS.
Synchronization	Embedded real-time clock, manual setup via http or automatic NTP setup
File Management	FTP client and server for configuration and data transfer.
Web Site	Security: DAA and session control. HTML standard supports all of the PDA browsers. eWON system and user Web site. SSI technology (Server Side Include) and BASIC scripted ASP (Active Server Pages).
Maintenance	SNMP V1 with MIB2 and/or via FTP files
Material	ARM processor @75Mhz, 8Mb SDRAM, 8Mb Flash, Din Rail Mounting Power supply 12 - 24VDC +/-20%, SELV; consumption: 3-6 watts 1x SUBD9 serial port: RS232, RS422 or RS485, 1,5kV isolation 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 Option: embedded modem : PSTN or GSM/GPRS Operating Temperature range: 0° to 50°C, 80% humidity (no condensation). Dimensions : 120(Depth) x 105(Height) x 26(Width) mm; Weight : <300gr CE, UL labelled

Product Reference

Reference	Description
EW41201	eWON 4001, Ethernet
EW41202	eWON 4001, PSTN33 modem
EW41205	eWON 4001, GSM/GPRS modem

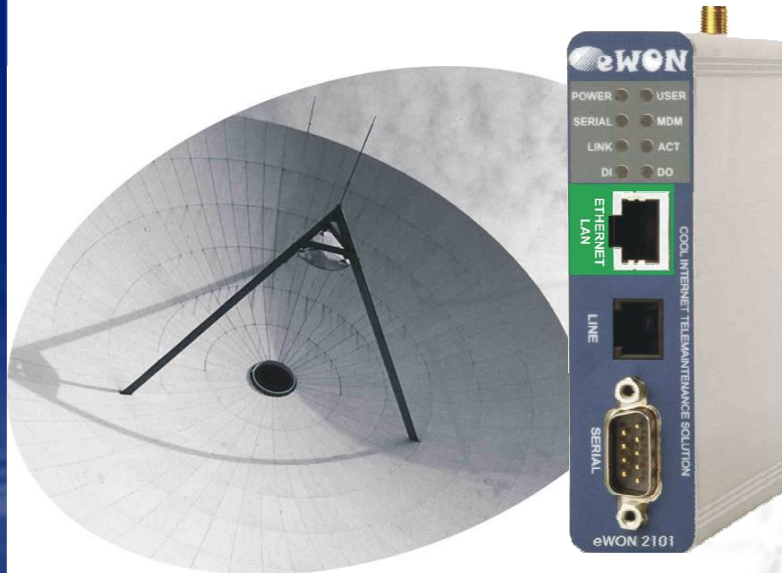
You select...
 You
 We connect
 we

PRODUCT DATA SHEET
 PRELIMINARY



eWON2101

Industrial VPN Router



- Ethernet 10/100Mb port RJ45
- RS232,485,422 serial port or MPI port
- One embedded modem:
 - PSTN
 - ISDN
 - GSM/GPRS
- 24 VDC Power supply, Rail DIN mounting
- 1 x digital Input (alarms) and 1 x Digital Output (fail Safe)
- SSL based VPN with static or certificate public key encryption
- Gateways serial protocol for Rockwell, Schneider, Omron and Siemens PLC
- Alarms Managements on PLC variables
- Configuration by Web Page
- Embedded firewall with NAT and IP filtering

Typical Applications

- GPRS for remote PLC Control & Maintenance
- Secure Dial-up Internet for Remote Control & maintenance
- Centralized Monitoring on GPRS network

PLC and Device Support

- Schneider TSX Premium & Micro with UNITELWAY and XIP
- Schneider TWIDO with MODBUS/RTU
- Schneider Momentum/Quantum with MODBUS TCP and RTU
- Wago I/O modules with MODBUS TCP or RTU
- Siemens S7-200 with PPI, Siemens S7-300/400 with MPI and ISOTCP
- Allen Bradley SL500 and Logix family with DF1 and EthernetIP
- Omron CJ and CS with FINS TCP and FINS Hostlink
- LEM QWave power quality analyzer and much more...

Remote Service

- Data Acquisition on serial link with UNITE, MODBUS RTU, DF1, PPI, MPI and Hostlink and on Ethernet port with MODBUS TCP, EIP, FINS TCP, ISO TCP
- Alarms management and notification by email, SMS, FTP put and SNMP trap
- Remote Maintenance with the original PLC Software on Ethernet or serial PLC port
- Remote access and control by standard Internet browser, PDA...
- Configuration by Embebbed Web Page

Routing & VPN

- VPN tunnel with shared key or PKI certificat
- Firewall, NAT and IP filtering
- Internet callback and GPRS always connected features
- Dynamic IP DNS support



Ethernet/serial Gateway	<ul style="list-style-type: none"> - MODBUS TCP / MODBUS RTU - XIP / UNITE - Ethernet IP / DF1 - FINS TCP / FINS Hostlink - ISO TCP / PPI-MPI - VCOM / ASCII
Remote Service	Data acquisition (Tagnames) in MODBUS/RTU, MODBUS/TCP, Unitelway, DF1, PPI, MPI, Hostlink, FINS TCP, Ethernet IP, ISO TCP & serial ASCII Protocol.
Alarms	<p>Alarm Notification by email, SMS, FTP put and/or SNMP trap.</p> <p>Available standard limits to configure: Very Low, Low, High, Very High + Dead zone and activation delay.</p> <p>Alarm summary and historian available in HTTP and via FTP files transfer.</p> <p>Alarm cycle management: ALM, RTN, ACQ and END.</p>
MMI	<p>HTTP: System and user defined Web site.</p> <p>SNMP: 'TagName' read/write</p> <p>FTP: whole set of parameters are available in files</p>
CallBack	Call back (direct or by Internet) on user request or on amount of rings.
Router, FireWall	NAT, IP filtering& forwarding, NAT, Dynamic DNS support.
Script	Dedicated application to be programmed with the Basic language.
VPN	Based on OpenVPN 2.0, a SSL VPN solution based on SSL/TLS industry standard protocol.
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.
Internet	RAS connection (PPP), PAP/CHAP security. Data compression, ISP connection (Internet Service Provider) primary et secondary, supports DNS.
Synchronization	Embedded real-time clock, manual setup via http or automatic NTP setup
File Management	FTP client and server for configuration, firmware update and data transfer.
Web Site	Security: DAA and session control. HTML standard supports all of the PDA browsers. eWON system and user Web site. SSI technology (Server Side Include) and BASIC scripted ASP (Active Server Pages).
Maintenance	SNMP V1 with MIB2 and/or via FTP files
Materials	<p>ARM processor @75Mhz, 16Mb SDRAM, 8Mb Flash, Din Rail Mounting</p> <p>Power supply 12 - 24VDC +/-20%, SELV; consumption: 3-6 watts</p> <p>1x SUBD9 serial port RS232, RS485 not isolated or MPI port isolated.</p> <p>1x RJ45 Ethernet 10/100 baseTx; 1,5kV isolation</p> <p>1x digital input: 0/24VDC; 3,5kV isolation</p> <p>1x digital output: open collector 200mA@30VDC; 3,5 kV isolation</p> <p>Option: embedded modem : PSTN 56kbds, ISDN or GSM/GPRS</p> <p>Operating Temperature range: 0° to 50°C, 80% humidit y (no condensation).</p> <p>Dimensions : 120(Depth) x 105(Height) x 26(Width) mm; Weight : <300gr</p> <p>CE, UL labelled</p>

Product Reference

**Reference
EW232xy**

where

- x = 0 for RS232, 422 or 485 serial port
- x = 6 for MPI port (coming mid 2006)
- y = 3 for embedded ISDN EU modem
- y = 4 for embedded PSTN 56K modem
- y = 5 for embedded GSM/GPRS EU modem
- y = 6 for embedded GSM/GPRS US modem