

▶▶▶ Rugged Industrial Telephone Modems

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.

PRODUCT HIGHLIGHTS

- 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
- Compliant with telephone systems world-wide

SELECT THE MODEL BEST FOR YOU

- **VT-MODEM-1** - 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

SELECTION GUIDE

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-1, -4 & 5



VT-MODEM-2



VT-MODEM-3

VT-Modem 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: V.17, V.29/V.27/V.21, FClass 1, 1.0 (-1, -2, -3) V.34, V.17, V.29/V.27/V.21, FClass 1, 1.0, 2, 2.0/2.1 (-4 and -5 only)
- Ringer & jacks 0.3 & RJ11 (line and auxiliary)

RS232 PORT

- Max. RS232 rate 57.6 kbps for -2 & -3; 115.2 kbps for -1 & -4; 230 kbps for -5
- RS232 (DCE) TD, RD, CTS, RTS, CD, DTR, DSR, RI, GND
- Command set standard AT and S register
- Status LEDs CD, DTR, RD, TD, Power

PLC DISCRETE I/O INTERVACE (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 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 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

ENVIRONMENTAL

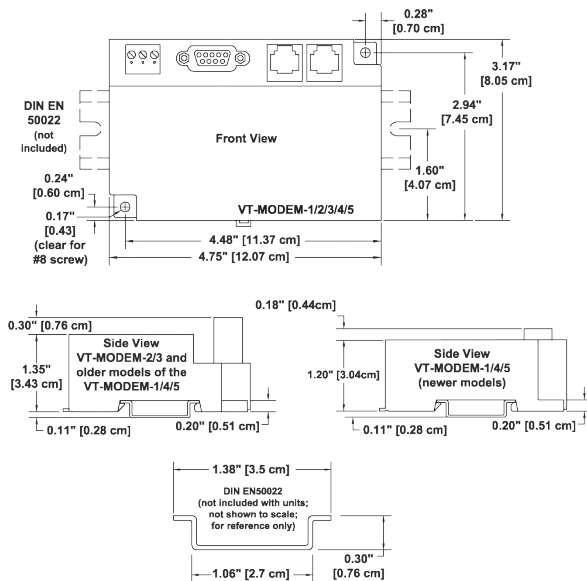
- Operating Temp. -30° to 70°C (Storage: -40° to 85°C)
- Humidity 5% to 95% RH (non-condensing)
- Flammability UL 94V-0 materials
- DIN rail or panel mount
- Vibration IEC68-2-6

STANDARDS

- 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; EN60950; AS/ NZS3260
- EMI emissions: FCC part15, ICES-003, Class A; AS/ NZS3548; EN61000-6-4,
- EMC immunity: EN61000-6-2,
- Hazardous locations (Zone 2): UL1604, CSA C22.2/213 (Class I, Div 2); EN60079-15 (Zone2, Cat. 3), (ATEX)

All specifications are subject to change. Consult factory for latest info.

MECHANICAL DRAWING



ORDERING GUIDE

- VT-MODEM-1WW** General purpose; dial-up 33.6K (V.34)
- VT-MODEM-2WW** PLC self-dialing and auto-answer 33.6K
- VT-MODEM-3WW** RS422 / RS485 port and 10-52 VDC power
- VT-MODEM-4WW** Leased-lined (2-wire only)
- VT-MODEM-5WW** Advanced 56K (V.92 and V.90)

*Note: All modems include a RS232 modem cable (DB9) and complete Windows software.



www.redlion.net

Connect. Monitor. Control.

Americas
sales@redlion.net

Asia-Pacific
asia@redlion.net

**Europe
Middle East
Africa**
europe@redlion.net

+1 (717) 767-6511

As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our automation, Ethernet and cellular M2M technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. Red Lion is part of Spectris plc, the productivity-enhancing instrumentation and controls company. For more information, please visit www.redlion.net.

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