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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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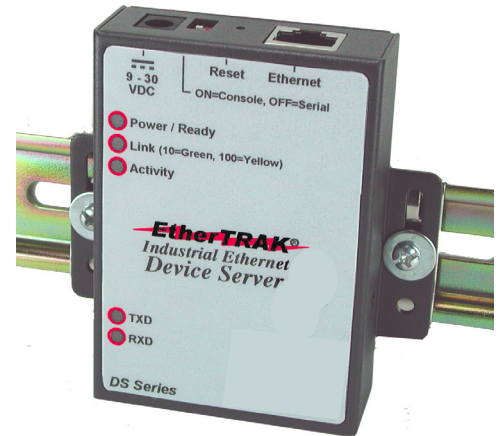
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▶▶▶ Ethernet Real-Time Device Servers

The Sixnet serial to Ethernet device servers are ideal for connecting your serial-based software applications over Ethernet to your remote serial devices.

These high performance devices deliver a truly rugged solution in a very compact size. The DS device servers are easy to use and at the same time extremely flexible, offering the latest in advanced IP technology. Use the supplied Quick Configurator for fast setup or the powerful Device Manager for more advanced configurations.



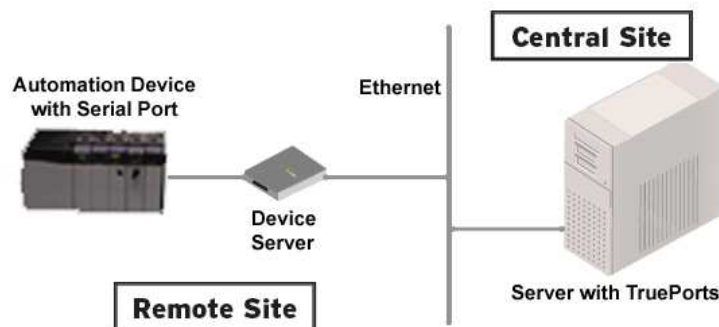
PRODUCT HIGHLIGHTS

- > Auto-detecting 10/100 RJ45 Ethernet port
- > Universal EIA-RS232/422/485 interface is software selectable which prevents field tampering
- > Serial data tunneling across an IP network with full support for back to back (paired mode) operation
- > Advanced security through AES / 3DES encryption over SSH or SSL sessions (SDS model)
- > Next Generation IP support (IPV6) for investment protection and network compatibility
- > Port buffering for data capture and analysis
- > For console management applications, powerful authentication schemes prevent unauthorized access
- > Device Management software for centralized management and control
- > COM or TTY port control and management for serial-based applications

FEATURES & BENEFITS

- > Space saving compact package
- > Rugged and protective metal enclosure
- > Wide temperature range meets NEMA TS-2
- > 15Kv ESD protection for continuous and reliable long-term operation
- > Indicators for network and serial interfaces for easy troubleshooting
- > Direct 9-30 VDC power range – No adapter needed in systems with 12 or 24 VDC available
- > Power over serial cable eliminates cost of a separate power wiring – Supports both power from serial or power to serial device
- > DIN Rail mounting standard for Industrial Automation applications
- > Direct panel mountable for convenient installation on any flat surface

APPLICATION SCENARIO



Industrial Ethernet Real-Time Device Servers™ Specifications

CELLULAR RADIO OPTIONS:

- CDMA:
 - 2G 1xRTT
 - 3G EVDO Rev. A
- GSM:
 - 3G HSPA
- USB Aircard support available

SERIAL PORT

- Serial or console (management) modes
- EIA-RS232/422/485 software selectable
- Full hardware flow control
- EIA-RS232 speeds 50 bps to 230 Kbps
- EIA-RS422/485 speeds up to 230 Kbps
- TX and RX LEDs
- Interface modes: 2 & 4 wire, half & full duplex

ETHERNET PORT

- 10 Mbps or 100 Mbps
- 10/100BaseTx Auto-detecting speed & duplex
- Isolation 1500 VRMS 1 minute
- Protocols (all models): IPv6, IPv4, TCP/IP, UDP, CIDR, Multicast, ARP, RARP, ICMP, BootP, DHCP, TFTP, Telnet, Raw, Reverse Telnet, RCP, HTTP
- Additional protocols (SDS model): SSH & Reverse, SSL, RIPv2/MD5, SNTp, LPD, DNS, WINS, HTTPS, SMTP, SNMPv3, PPP, PAP/CHAP, SLIP, CSLIP

SECURITY & AUTHENTICATION SDS model only unless otherwise noted

- Local database - both SDS and DS models
- Secure shell SSHv1 and SSHv2
- Secure Socket Layer SSL v2.0 and v3.0; server and client
- Transport Layer Security TLS v1.0
- Encryption protocols: AES, 3DES, DES, Blowfish, CAT128, ARCFOUR (RC4), ARCTWO (RC2)
- Hashing algorithms: MD5, SHA-1, RIPEMD160, SHA1-96, MD5-96
- Key exchange: RSA, EDH-RSA, EDH-DSS, ADH X.509 certificate verification RSA, DSA
- Authentication and accounting RADIUS
- SecureID-agent RSA or via RADIUS
- Other: Certificate authority (CA) list; TACACS+, LDAP, NIS, Kerberos; IP address filtering; Disable unused daemons

MANAGEMENT

- Powerful and easy to use
- Web browser HTTP or secure HTTPS (SSL/TSL)
- Device Manager software Microsoft Windows utility
- Quick Configurator for fast and easy setup
- CLI (Command Line Interface), Telnet, SSH, console port
- Other: SNMP, MIB II; read & write; SYSLOG; Port Buffering

TTY / COM EMULATION

- OS support: Microsoft Windows (Server 2003, XP, 2000 and NT), Linux, Solaris, AIX, SCO UnixWare/OpenServer, NCR, HP UX

ELECTRICAL

- Input voltage 9-30 VDC thru power jack or RJ45
- Input power (typical) 4.8 Watts
- ESD protection on all signals 15Kv

ENVIRONMENTAL

- Operating temperature range -34* to +74 °C (meets NEMA TS-2)
- Storage temperature range -40 to +85 °C
- Humidity (non-condensing) 5 to 95% RH
- Vibration, shock, freefall IEC68-2-6, -27, -32

* Real-time clock power back-up in SDS model is limited when unit is shut down at very low temperatures

STANDARDS COMPLIANCE

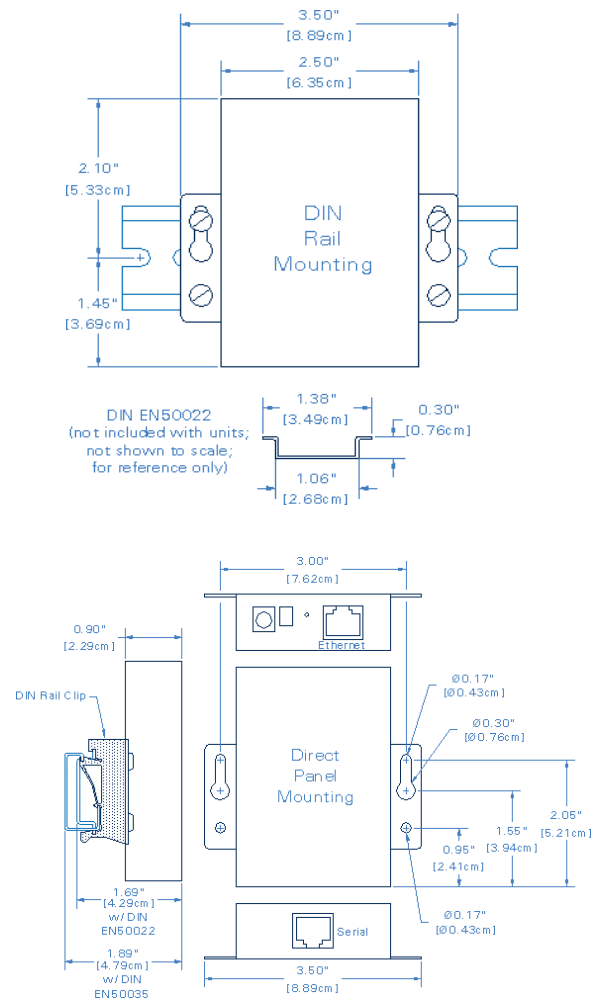
- Hazardous Locations: UL1604 (CSA C222/213) Class I, Div 2 (Zone 2)
- Electrical safety: UL/CSA60950 & 508, EN60950
- EMI emissions: FCC part 15, ICES-003, EN55022
- EMC immunity: IEC61326-1

PHYSICAL

- DIN rail or direct to panel mount
- Packaging (powder-coated steel) IP30 protection
- Dimensions - see mechanical drawing
- Weight 0.35 kg (0.8 lb)

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

MECHANICAL DRAWING



ORDERING GUIDE

PART NUMBER	DESCRIPTION
ET-DS-1	EtherTRAK Device Server



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Connect. Monitor. Control.

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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 award-winning 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. For more information, please visit www.redlion.net. Red Lion is a Spectris company.