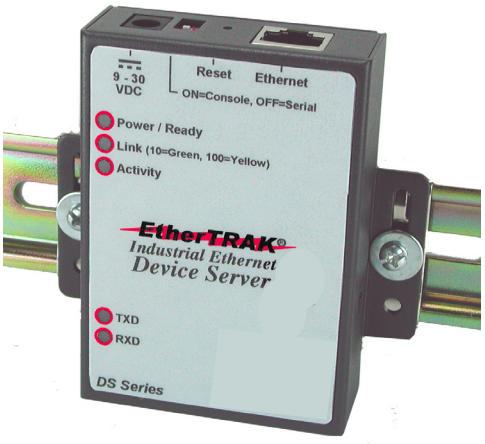
Industrial Ethernet Real-time Device Servers™

Sixnet Device Servers™

▶▶▶ 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.

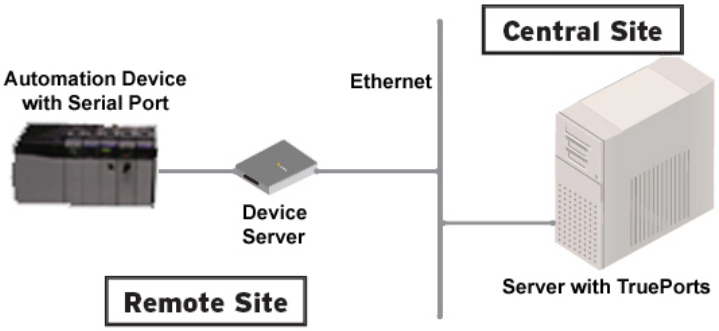
PRODUCT HIGHLIGHTS

- 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 networking

LISTED 65SN

RoHS compliant

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

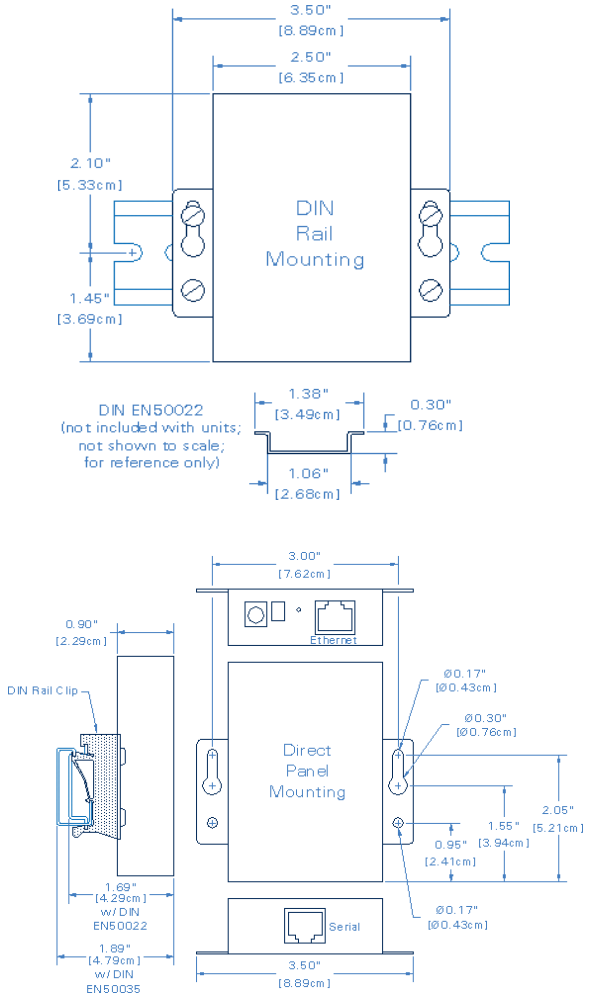
Hazardous Locations: UL1604 (CSA C222/213) Class I, Div 2 (Zone 2)
Electrical safety: UL/CSA60950 & 508, EN60950
EMI emissions: FCC part 15, ICES-003, EN55022
EMC immunity: IEC61326-1

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

red lion®

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 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.

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