

Magnum DX40

Serial Device Router

Features

- Hardened for harsh environments
- IEEE 1613 / IEC 61850-3
- Serial and Ethernet interfaces
 - 2 RS232/RS485 ports software selectable
 - 2 Ethernet ports 10/100 BaseTX RJ45
- Or
- 100FX SFP/SFF multi/singlemode
- Multiprotocol support
 - Async and SCADA to TCP/IP
 - Ethernet, TCP/IP
 - IP routing
 - Network resiliency
 - RSTP
 - Serial multipoint and Multimaster topologies
- Cyber-Security protection:
 - Serial SSL
 - Secure HTTP
 - IPsec encrypted VPNs
 - Ethernet port security
 - TCP/IP firewall
 - Serial port SSL
 - Per-serial port VLANs
- Web GUI, XML
- SNMP management
- AC and DC wide range of power options
- No fans or moving parts

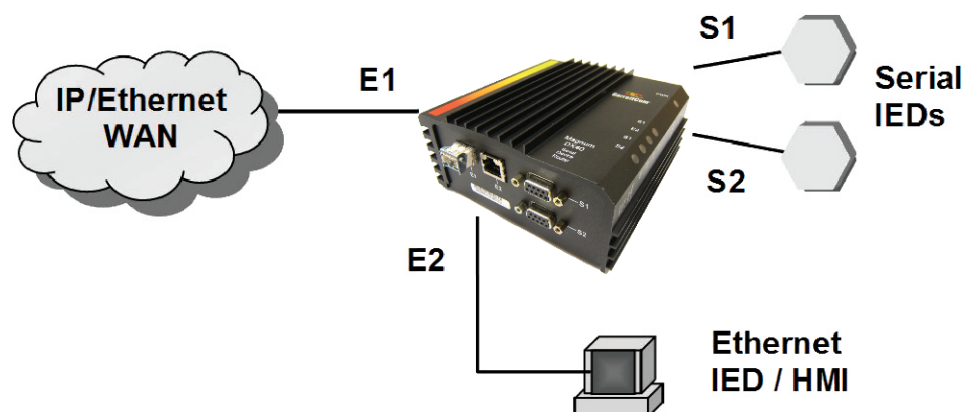


DX40 Serial Device Router

The Magnum DX40 provides a rugged and secure solution for extending fiber-based connectivity to remote devices in harsh environments such as power utility substations. It combines features of a Serial device server, Ethernet switch and IP router in a single product.

The DX40's dual-serial, dual-Ethernet configuration supports several flexible configurations. It provides resilient dual fiber-based extension from a core Ethernet network to serial devices distributed across a large facility. It serves as a multi-protocol concentration and access point for a fiber-based Ethernet wide area network connection to a small site.

Encrypted per-session SSL and IPsec VPN capabilities, along with other IP Firewall and port security features, assure cyber-security protections will extend cost effectively all the way to end-point devices and small facilities.



SERIAL INTERFACE

Physical Interface:

- 2 ports, RS232 or RS485, S/W selectable
- DB9 female connector
- Serial data rate from 300 bps to 230.4 kbps
- Data length: 1-32 bits support

Protocols/Features:

- Async to TCP/IP; • DNP, Modbus, Telnet
- TCP/IP to serial terminal server, reverse terminal server
- Serial Multipoint and Multimaster Topologies
- Select SCADA bit oriented protocols*

ETHERNET INTERFACE

Physical Interface:

- 2 copper or fiber ports
- Full Duplex, Half Duplex
- RJ-45 modular connector ports
- 10/100 Base TX, auto-sensing or fixed speed
- 100FX Ethernet SFF or SFP modules
- Single-mode 8µ cable up to 40km
- Multi-mode 62.5µ/125 cable up to 2km

Protocols/Features:

- Ethernet, TCP/IP
- IEEE 802.3x flow control
- Prioritization per IEEE 802.1p*
- VLANs per 802.1Q; • Port Rate Limiting
- Rapid Spanning Tree per IEEE 802.1w
- Support for 1024 MAC Addresses

IP ROUTING FUNCTIONS & FEATURES

- IP Routing, RIP, RIP II, Static Routes
- Per VLAN Routing
- ICMP, ARP; • OSPF
- Block / Allow / IP or PORT addresses
- DiffServ, traffic prioritization*

SECURITY

- TCP/IP Firewall
- Serial port SSL with AES/3DES
- IP VPN using IPSec*
- Secure HTTP (HTTPS)
- Serial Port VLANs
- Ethernet port security
- RSA/Radius Support
- Multilevel passwords with enforcement and aging
- Management activity logging and alarms

MANAGEMENT & DIAGNOSTICS

- Web-based Graphical User Interface (GUI)
- CLI access via remote TELNET connection
- Powerful built-in protocol analyzer to monitor traffic on any port
- Comprehensive layer 1 through 3 statistics
- SNMP MIB II and SNMP Traps
- PING and TELNET diagnostic functions
- Syslog Event Logging; • Proprietary Enterprise MIB
- XML-based config file

ENVIRONMENTAL

Operating Temperature:

- -40C to +85C, no fans

Storage Temperature:

- -40C to +85C

Humidity:

- 95% non-condensing

Industrial:

- IEEE1613
- IEC 61850-3
- IEC 61000-6-5

Emissions:

- EN55022A, FCC Part 15A

Immunity:

- EN55024
- EN61000-6-2
- EN61000-4-2 (ESD)
- EN61000-4-3 (RF)
- EN61000-4-4 (EFT)
- EN61000-4-5 (SURGE)
- EN61000-4-6 (CRF)
- EN61000-4-10 (MAG FIELD)
- EN61000-4-11 (VDI)
- EN61000-4-12 (OSCILLATION)
- EN61000-4-16 (CCM)
- EN61000-4-17 (RIPPLE)
- EN61000-4-29 (VDI)

Safety:

- UL60950-1
- EN60950-1
- CSA C22.2

POWER OPTIONS

High Voltage (H)

- 90-250 Vac or Vdc, 50-60Hz
- 0.2A, 18 watts

Low Voltage DC (L)

- 24-48 Vdc
- 0.75A, 18 watts

MECHANICAL

Dimensions:

5.6" W x 5.1" D x 2.5" H
(14.2 cm x 12.95 cm x 6.35 cm)

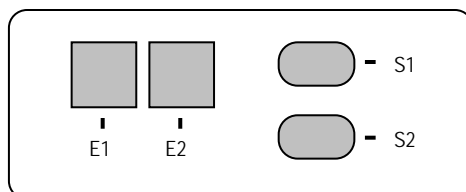
Weight:

2.75 lbs (1.25 kg)

Mounting:

Panel Mount and DIN Rail Options

DX40 Port Configuration



* Planned Features

Specifications subject to change

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