NEXT GENERATION MULTI-PORT MEDICAL DEVICE SERVER

Specifically designed for the medical industry, the UL and IEC-60601 compliant EDS-MD™ provides mission-critical device connectivity, allowing remote access and management of virtually any electronic or medical device.

EDS-MD boasts 4, 8 or 16 individually isolated RS-232 serial ports with a Gigabit (10/100/1000Mpbs) network interface. Going above and beyond the IEC-60601 requirement, EDS-MD provides galvanic isolation on all ports to ensure the highest levels of safety. If a grounding problem occurs, the operation of EDS-MD or other connected devices will not be affected.

With Lantronix' proprietary Secure Com Port Redirector™ virtualization software, existing serial port applications can work with EDS-MD without any code modifications. Virtual COM ports can be mapped to EDS-MD and encrypted at both ends of the communication, allowing the transport of sensitive information to and from remote device servers over the Internet with the highest level of security.

Set up and configuration of EDS-MD is simple with industry-standard management tools including Web, CLI and XML.

EDS-MD Highlights:

> UL and IEC-60601 compliance provides port isolation to protect connected medical devices

> Securely connect any medical device with a serial interface to the network using enterprise-level SSL and SSH

> Gigabit Ethernet offers increased bandwidth for higher performance

LANTRONIX®

EDS-MD Features

> Standards
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3x
- USB 2.0

> Hardware
- 600MHz ARM 11 processor
- 8 MB Flash
- 4 GB SD Card (internal only)
- 256 MB SDRAM
- Real Time Clock with Battery back-up
- Onboard Thermal Sensor

> Physical Interface
4/8/16 RJ45 (DTE) Serial Connectors
- RS-232 Interface
- Data rates – up to 921 Kbps
- ESD Protection – 15kV
- Circuit and port isolation – 1.5KVAC

2 USB Host ports - USB-A receptacle connectors
- Output Capability = 0.5A
- Circuit and port isolation – 1.5KVAC

1 Ethernet port - RJ45 connector^
- 10/100/1000Mbps
- Autosensing MDI/MDIX
- Full/half duplex
- Circuit and port isolation – 1.5KVAC

1 Reset Button

> LED Indicators
- Power/System
- Serial Ports (4, 8, 16)
- Ethernet – Activity/Link

> Physical Dimensions
Size: L x W x H
   21 cm (8.25 in) x 19 cm (7.5 in) x 6 cm (2.4 in)

Weight:
- 16-Port = 0.9 Kg (2.0) lbs
- 8-port = 0.82 Kg (1.8 lbs)
- 4-port = 0.8 Kg (1.75 lbs)

> Software
- Windows XP / Server 2003 / Vista / 7 (32 bit and 64 bit) / Server 2008 (32 bit and 64 bit) based DeviceInstaller™
- Secure Com Port Redirector™

> Security
- SSL v3, SSH v2 Client & Server – up to 2048-bit certificates
- Encryption: AES, 3DES, RC4
- Authentication: SHA-1, MD5, Base-64

> Management
- Web Browser (SSL option for secure login)
- CLI (over Serial Ports, Telnet or SSH)
- XML Configuration Records via CLI or FTP

> Environmental
- Operating Temp: 0°C to +55° C (32°F to 131°F)
- Storage Temp: -30°C to +80° C
- Relative Humidity: 20% to 90% relative humidity, non-condensing
- IP Rating = 20

> Power
- Input: IEC60320 C14 receptacle without a power switch
- 100-240 VAC, 50/60 HZ, 0.4A
- Power Consumption: 23 Watts Max
- Nominal Power: 12 Watts

> Mounting
- Wall mount
- Desktop

> Certifications
Emissions:
- FCC part 15 Subpart B
- EN 60601-1-2: 2007
- Industry Canada ICES-003 Issue 4 February 2004
- CISPR 22:2005 + A1: 2005 + A2: 2006 ITE
- CISPR 11:2003 + A1: 2004 + A2: 2006
- VCCI V-3/2010.04
- AS/NZS CISPR 22: 2009
- EN 55022: 2006 + A1: 2007
- EN61000-3-2: 2006 + A1: 2009 + A2: 2009
- EN61000-3-3: 2008

Immunity:
- EN55024 1998 + A1: 2001 + A2: 2003
- EN60601-1-2: 2007
- EN61000-4-2: 2009
- EN61000-4-3: 2006 + A1: 2008
- EN61000-4-4: 2004 + A1: 2010
- EN61000-4-5: 2006
- EN61000-4-6: 2009
- EN61000-4-8: 1994 + A1: 2001
- EN61000-4-11: 2004

Safety:
- UL 60950-1: 2nd edition; US Safety Standard for Information Technology Equipment
- UL 60601-1: 1st edition; US Safety Standard for Medical Electrical Equipment
- CAN/CSA-C22.2; No. 60950-1-07: 2nd edition; Canada Safety Standard for Information Technology Equipment
- CAN/CSA C22.2; No. 601.1: 1990; Canada Safety Standard for Medical Electrical Equipment
- IEC 60601-1: 1998 (2nd edition); International Safety Standard for Medical Electrical Equipment
- EN60601-1: 1990 (2nd edition) Medical Electrical Equipment –Part 1: General Requirements for Safety
- JIS T 0601-1:1999, Japan Safety Standard for Medical Electrical Equipment

Reach

RoHS

> Warranty
- 5-Year Limited

^ 2 additional Ethernet ports enabled with future firmware release.

Ordering Information

> Part Number / Description

Part Number	Description
EDSOR04P-01-R	EDS-MD 4-PORT DEVICE SERVER, ROHS
EDSOR08P-01-R	EDS-MD 8-PORT DEVICE SERVER, ROHS
EDSOR16P-01-R	EDS-MD 16-PORT DEVICE SERVER, ROHS

> Power Cords*

930-073-R	POWER CORD, HOSPITAL GRADE, US
930-074-R	POWER CORD, EUROPE
930-075-R	POWER CORD, UNITED KINGDOM
930-076-R	POWER CORD, HOSPITAL GRADE, AUSTRALIA
930-077-R	POWER CORD, ISRAEL

*Select from appropriate regional power cord.

> Accessories

200.2066A	RJ45 TO DB25M CABLE ADAPTER (DTE DEVICE)
200.2067A	RJ45 TO DB25F CABLE ADAPTER (DTE DEVICE)
200.2069A	RJ45 TO DB9M CABLE ADAPTER (DTE DEVICE)
200.2070A	RJ45 TO DB9F CABLE ADAPTER (DTE DEVICE)
200.2071	RJ45 TO DB9M CABLE ADAPTER (DCE DEVICE)
200.2072	RJ45 TO DB9F CABLE ADAPTER (DCE DEVICE)
200.2073	RJ45 TO DB25M CABLE ADAPTER (DCE DEVICE)
200.2074	RJ45 TO DB25F CABLE ADAPTER (DCE DEVICE)
500-153	CABLE; RJ45 LOOPBACK ADAPTER
ADP010104-01	CABLE; ROLLED SERIAL ADAPTER, 0.1M (0.33 FT)
ADP010106-01	CABLE: ROLLED SERIAL ADAPTER, 0.1M (0.33 FT), 6 IN. CONNECTOR