



# NEXT GENERATION MULTI-PORT MEDICAL DEVICE SERVER

Specifically designed for the medical industry, the UL and IEC-60601 compliant EDS-MD<sup>®</sup> Medical Device Server 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 (10/100/1000Mbps) 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<sup>™</sup> 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

## 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

#### 3 Ethernet ports - RJ connector

- 10/100/1000Mbps
- Auto-sensing MDI/MDIX
- Full/half duplex
- Circuit and port isolation – 1.5KVAC
- Ethernet switching

#### 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

## Ordering Information

### Americas

Call: 800.422.7055

Email: sales@lantronix.com

Buy Online: <http://www.lantronix.com>

### Europe

Call: +31 (0) 76.52.3.6.74 4

Email: EMEA@lantronix.com

### Asia/Pacific

Call: +852 3428.2338

Email: asiapacific\_sales@lantronix.com

### Japan

Call: +81.3.6277.8802

Email: japan\_sales@lantronix.com

### > Part Number

EDSOR04P-01  
EDSOR08P-01  
EDSOR16P-01

### > Description

EDS-MD 4-PORT DEVICE SERVER, ROHS  
EDS-MD 8-PORT DEVICE SERVER, ROHS  
EDS-MD 16-PORT DEVICE SERVER, ROHS

### > Power Cords\*

930-073-R  
930-074-R  
930-075-R  
930-076-R  
930-077-R

POWER CORD, HOSPITAL GRADE, US  
POWER CORD, EUROPE  
POWER CORD, UNITED KINGDOM  
POWER CORD, HOSPITAL GRADE, AUSTRALIA  
POWER CORD, ISRAEL

\*Select from appropriate regional power cord. Power cords sold separately.

### > Accessories

200.2066A  
200.2067A  
200.2069A  
200.2070A  
200.2071  
200.2072  
200.2073  
200.2074  
500-153  
ADP010104-01  
ADP010106-01

RJ45 TO DB25M CABLE ADAPTER (DTE DEVICE)  
RJ45 TO DB25F CABLE ADAPTER (DTE DEVICE)  
RJ45 TO DB9M CABLE ADAPTER (DTE DEVICE)  
RJ45 TO DB9F CABLE ADAPTER (DTE DEVICE)  
RJ45 TO DB9M CABLE ADAPTER (DCE DEVICE)  
RJ45 TO DB9F CABLE ADAPTER (DCE DEVICE)  
RJ45 TO DB25M CABLE ADAPTER (DCE DEVICE)  
RJ45 TO DB25F CABLE ADAPTER (DCE DEVICE)  
CABLE; RJ45 LOOPBACK ADAPTER  
CABLE; ROLLED SERIAL ADAPTER, 0.1M (0.33 FT)  
CABLE; ROLLED SERIAL ADAPTER, 0.1M (0.33 FT),  
6 IN. CONNECTOR

- 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

