



# EDS-MD

Medical Device Server



## NEXT GENERATION MULTI-PORT MEDICAL DEVICE SERVER

Specifically designed for the medical industry, the UL and IEC-60601 3<sup>rd</sup> edition 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™ 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.

Well-suited for medical, dental and other sensitive environments, the EDS-MD Device Server is designed with customer safety in mind, the EDS-MD ensures reliability and safeguards in settings requiring higher levels of protection.

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

### EDS-MD Highlights

- UL and IEC-60601 3rd edition 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

### Contact Information

#### Americas

800.422.7055  
sales@lantronix.com  
<http://www.lantronix.com>  
NASDAQ: LTRX

#### Europe

+31 (0) 76.52.3.674 4  
EMEA@lantronix.com

#### Asia/Pacific/Japan

+852.3428.2338  
asiapacific\_sales@lantronix.com

China: +86.21.6237.8868  
Shanghai@lantronix.com

India: +91 994.551.2488  
sales\_india@lantronix.com

Indonesia: +91.994.551.2488  
sales\_indonesia@lantronix.com

Japan: +81.3.3273.8850  
sales\_japan@lantronix.com

**LANTRONIX**



## Features and Specifications

### Standards

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

### Hardware

- 600MHz ARM 11 processor
- 8MB 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 RJ 45 DTE Serial Connectors

- Serial Connectors
- RS-232 Interface
- Data rates - up to 921 Kpbs
- EDS Protection - 15kV
- Circuit and port isolation - 1.5KVAC

#### USB Ethernet

#### 4/8/16 RJ 45 DTE Serial Connectors

- Serial Connectors
- RS-232 Interface
- Data rates - up to 921 Kpbs
- EDS Protection - 15kV
- Circuit and port isolation - 1.5KVAC
- USB Ethernet

### LED Indicators

- Power/System
- Ethernet - Activity/Link
- Serial Ports (4,8,16)

### Physical Dimensions

- Size: 21 cm (8.25 in) x 19 cm (7.5 in) x 6 cm (2.4 in)
- 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 and 64 bit) based DeviceInstaller™ (32 bit and 64 bit) / Server 2008 (32 bit
- Secure Comport 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° to +55° (32F to 131 F)
- Storage Temp: -30° to +80°
- Relative humidity, 20-90% 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
- A/NZS CRISPR 22: 2009
- EN 55022: 2006 + A1:2007
- EN 55032: 2012/AC: 2013
- CISPR 32: 2012
- EN61000-3-2: 2006 + A1: 2009 + A2: 2003
- EN61000-3-3:2009

#### 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: 2004a

### 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
- ANSI/AAMI ES60601-1:2012 - Medical Electrical Equipment - Part 1: General requirements for basic safety and essential performance
- CAN/CSA-C22.2 No. 60601-1 Medical Electrical Equipment - Part 1: General Requirements for general safety and essential performance
- IEC 60601-1: 1998 (2nd edition) + 2007 (3rd edition) - Medical Electrical Equipment - Part 1: General Requirements for basic safety and essential performance
- EN 60601-1: 1990 (2nd edition) + 2013 (3rd edition) - Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
- JIS T 0601-1:1999, Japan Safety Standard for Medical Electrical Equipment

### Warranty

- 5-year limited warranty



## Ordering Information

Part #	Description
EDSOR4P-01	EDS-MD 4-PORT DEVICE SERVER, ROHS
EDSOR8P-01	EDS-MD 8-PORT DEVICE SERVER, ROHS
EDSOR16P-01	EDS-MD 16-PORT DEVICE SERVER, ROHS

### Power Cords

Part #	Description
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

### Accessories

Part #	Description
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