



# 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® 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

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# 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

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### 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 and 64 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 |