EDS-MD®

Wired IoT Gateway for Medical Devices



Manage and secure your medical devices and data with Lantronix fault-tolerant EDS-MD® IoT gateway for medical devices. This device gateway is IEC-60601 certified and can securely managed your devices locally on site or remotely by authorized employees.

Manage Visibility into Medical Assets

The medical industry utilizes many connected devices and assets. A majority of these devices are critical to the operation of the medical enterprise, for example, patient monitors. The EDS-MD can be integrated into the medical enterprise network and enable visibility into these devices from anywhere at anytime.

Manage Mission-Critical Data Securely

The transport of sensitive information to and from remote device servers over the Internet demands the highest level of security. 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 communication.

Manage Assets and Data Locally or Remotely

Management of any device and data requires fault-tolerance. EDS-MD empowers authorized IT staff to access and monitor devices and data anywhere at anytime. In addition, the EDS-MD goes beyond the IEC-60601 requirement, as it provides galvanic isolation on all ports to ensure the highest levels of safety and fault-tolerance. Should a grounding issue ever occurs, the operation of EDS-MD or other connected devices will not be affected.

High-Performance Wired Connectivity

The EDS-MD offers 4, 8 or 16 individually isolated RS-232 serial ports with a Gigabit (10/100/1000Mpbs) network interface. The configuration and setup of the EDS-MD is simple with industry-standard management tools including integrated Web and CLI interfaces along with XML support. Device management capabilities are supported by Lantronix Device Management SaaS offerings—monitor, manage and troubleshoot your IoT assets with ConsoleFlow™, our ready-to-use software platform.

Perfect For:


Hospital


Clinics



EMS


ER

Feature Rich Turnkey Design

- Configure and connect to the enterprise network, out-of-the-box with ease
- Make your device visible to authorized users with EDS-MD unique Device ID feature
- Develop and deploy custom applications with standards-based runtime services quickly and efficiently
- Benefit from Lantronix industrial design quality, reliability and connectivity
- For wireless healthcare IoT device gateway, refer to SGX5150 MD

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Features and Specifications

Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- 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 Connectos
- RS-232 Interface
- Data rates - up to 921 Kpbs
- EDS Protection - 15kV
- Circuit and port isolation - 1.5KVAC

LED Indicators

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

Protocols

- DHCP Client, DHCP Server, DHCPv6 Client
- uPnP (Discovery), LCAP (77FE), Telnet, FTP, HTTP(S)
- IPv4, TCP, UDP, ICMP, ARP, Auto-IP, DNS, SNMP v2/v3, NTP

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

- Network Time Protocol(NTP) support
- AES 192 & 256 bit encryption support
- Supports copying port config settings
- Gateway Features - port forwarding, static routers and DHCP servers

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: 0C to +55C (32F to 131 F)
- Storage Temp: -30C to +80C
- 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

- UL, CE, FCC, VCCI, RCM and UL/ CSA/ IEC 60601-1 4th Edition for Medical Electrical Equipment.
- Please refer to EDS-MD User Guide for certification details.

Warranty

- 5-year limited warranty

Ordering Information

Part Number	Description
EDSMG04P (New)	IoT Gateway for Medical Devices 4-PORT Serial, IEC 60601 (Regional power cord sold separately)
EDSMG08P (New)	IoT Gateway for Medical Devices 8-PORT Serial, IEC 60601 (Regional power cord sold separately)
EDSMG16P (New)	IoT Gateway for Medical Devices 16-PORT Serial, IEC 60601 (Regional power cord sold separately)
EDSOR04P-01 *	4-PORT Device Server, RoHS, IEC 60601
EDSOR08P-01 *	8-PORT Device Server, RoHS, IEC 60601
EDSOR16P-01 *	16-PORT Device Server , RoHS, IEC 60601

* The Device Server can be upgraded to Device Gateway with the latest firmware.

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

Contact Information

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

Asia-Pacific
+852 3428.2338
asiapacific_sales@lantronix.com
China: +86.21.6237.8868
India: +91 994-551-2488

Europe
+31 (0) 76.52.3.6.74 4
eu_sales@lantronix.com

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