

Optimize your healthcare operation with our highly versatile, secure, and IEC-60601 certified *Lantronix® SGX 5150 MD* wireless IoT gateway for medical devices. Its advanced turnkey design provides everything you need to benefit from tracking hospital assets to managing critical patient data.



Improve Patient Care

The <u>SGX 5150 MD</u> enables healthcare professionals to access and monitor patients' health status in real-time. With accurate and on-demand insight into a patient's health status, doctors and nurses can deliver more personalized treatments and improve their patients' quality of care.



Strong Security with InfiniShield™ Technology

The SGX 5150 MD platform was designed to support critical assets and protect your operation from unauthorized access, giving you peace of mind that your data always remains secure. The SGX 5150 MD is also protected from unauthorized configuration with Secure boot support.



Lower Operational Costs

The SGX 5150 MD facilitates the delivery of data to your private or public cloud infrastructure and mobile app so that you can track your organization's assets at all times. This increase in asset visibility substantially lowers the cost and likelihood of losing expensive medical devices. For expedited asset tracking, utilize the Lantronix MACH10® Device Management Software.

Perfect For.





lospital

Clinic





FMS

FR

Feature Rich Turnkey Design

- Medical certifications IEC60601-1-2 4th edition, FCC, EU, RED
- Easily configure and connect to the enterprise network, out-ofthe-box
- Unique Device ID feature allows



Features and Specifications

Wireless Specifications

5G Wi-Fi (IEEE 802.11ac)

- 1x1 ac (MCS0 MCS9)
- 20, 40 and 80 MHz Channels with optional SGI

IEEE 802.11 n

- 1x1 n (MCS0 MCS7)
- 20 MHz and 40 MHz channel width with optional SGI

Advanced 802.11 n/ac Features

- · Transit Beamforming
- Tx/Rx Low Density Parity Check (LDPC)
- Rx Space Time Block Coding (STBC)

Bluetooth and WLAN Coexistence

Compatible with IEEE 802.11 a/b/g and Supports IEEE 802.11 d/h/j/i

Dual band 2.4 GHz and 5 GHz

- 2.412 GHz 2.484 GHz Channels 1 14
- U-NII-1 (5.15 5.25 GHz) Channels 36, 40, 44, 48
- U-NII-2 (5.25 5.35 GHz) Channels 52, 56, 60, 64
- U-NII-2e (5.47 5.725 GHz) Channels 100 140
- U-NII-3 (5.725 5.825 GHz) Channels 149 165

Ethernet Specifications

- IEEE 802.3 MAC and PHY, 10BaseT and 100BaseT
- Auto-Negotiation/Auto MDIX. Full-duplex and Half-duplex

USB Specifications

- Configurable Host/Device USB 2.0 HS/FS port with USB type C connector
- USB configurable host can provide VBUS 5V 0.5A

Physical Interface

- (1 or 2) RJ-45 RS232 Serial Ports, with Baud rate up to 921 Kbps
- 15 KV ESD Protection
- (1) USB port Type C Host / Device Connector
- (1) RJ-45 Ethernet port, 10/100Mbps, 1.5 KV Surge Isolation
- (1) Reset-to-default Button
- (1) WPS Button
- (1) Barrel jack for 12 VDC power input

LED Indicators

- · System Status LED
- WLAN Status LED
- · Wi-Fi Receive Signal Strength Indicator LEDs
- Ethernet Link/Activity LEDs (on RJ45)
- Serial Port TX/RX LEDs (on RJ45)

Protocols_

- DHCP Client, DHCP Server, DHCPv6 Client
- uPnP (Discovery), LCAP (77FE), Telnet, (S)FTP, HTTP(S)
- IPv4/IPv6. TCP. UDP. ICMP. ARP. Auto-IP. DNS. SNMP v2/v3.

InfiniShield [™] Security

FIPS 140-2 Level 1 Certification

WLAN Security

- AES/CCMP and TKIP encryption, 802.11i
- WPA/WPA2 Pre-Shared Key (PSK) or IEEE 802.1X, AES-CCMP

Enterprise Security (WPA2-Enterprise)

- EAP-TLS
- · EAP-TTLS (MS-CHAPv2)
- EAP-PEAPv0/EAP-MS-CHAP v2)

Web Manager (HTML5 Browser HTTP/HTTPS)

- EAP-PEAPv1
- · EAP-FAST
- IPSec

Firmware Authentication and Secure Data Storage

· ECDSA 256-bit verification

Management Interfaces

DeviceInstaller™ utility

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- Input: DC barrel, 12 VDC from Medical Power Supply shipped with unit
- Power Consumption = 1.9W typical without USB Load
- Power Consumption = 5.5W max with USB Load
- Output: 5V / 500 mA via USB Type C connector (in Host mode) when used with the medical power supply provided

Certifications _

- FCC, IC, EU RED, UL/CE, 60601-1, 60601-1-2 4th Edition.
- For a complete list of compliance details, refer to the SGX 5150 User Guide

Physical Dimensions

- Dimensions: 10.8 cm (4.3 in) x 7.2 cm (2.8 in) x 3.3 cm (1.3 in)
- Weight: 0.35 kg (0.77 lb)

Warranty

Industry-leading 5-Year Limited Warranty

Part Number Description

SGX51501M2US	SGX 5150 MD Wireless IoT Gateway for Medical Devices, 1 Serial Port, 802.11ac,10/100 Ethernet, USB with Power Supply Level 6 (ACC-520-160-R) and 2 antennas included in the box. North American Version.
SGX51502M2US	SGX 5150 MD Wireless IoT Gateway for Medical Devices, 2 Serial Ports, 802.11ac, 10/100 Ethernet, USB with Power Supply Level 6 (ACC-520-160-R) and 2 antennas included in the box. North American Version.
SGX51501M2ES	SGX 5150 MD Wireless IoT Gateway for Medical Devices, 1 Serial Port, 802.11ac, 10/100 Ethernet, USB with Power Supply Level 6 (ACC-520-160-R) and 2 antennas included in the box. European Version.
SGX51502M2ES	SGX 5150 MD Wireless IoT Gateway for Medical Devices, 2 Serial Ports, 802,11ac, 10/100 Ethernet, USB and 2 antennas included in the box. European Version,

Accessories Description

ACC-520-160-R	Medical-grade Power Supply, Desktop, 60601-1, 100-240VAC, 12VDC IA, EFF Level 6,5.5*2, Imm Barrel, 150cm Cord, C14 AC Input, 0-40C, RoHS
ACC-500-216-R	Power Cord, Packaged, US, Hospital Grade, 250VAC, 10A, 8 ft, RoHS
ACC-500-217-R	Power Cord, Packaged, Europe, 250VAC, 10A, 8 ft, RoHS
ACC-500-218-R	Power Cord, Packaged, UK, 250VAC, 10A, 8 ft, RoHS
ACC-500-219-R	Power Cord, Packaged, Australia, Hospital Grade, 250VAC, 10A, 8 ft, RoHS
ACC-500-220-R	Power Cord, Packaged, Israel, 250VAC, 10A, 8 ft, RoHS
ACC-930-0150-00	Antenna, 2.4 & 5 GHz, 2.15 DBI, Reverse Polarity - SMA, RoHS Single Pack with boot (2pcs)
ACC-500-244-R	Cable, USB Type C to USB-A Male 2.0, 1000mm, BLACK, RoHS
ACC-500-242-R	Cable, RJ45 PLUG TO DB9M, ACC-500mm, 6 ft, BLACK
ACC-500-243-R	Cable, , RJ45 PLUG to DB15M, ACC-500mm, 6 ft, BLACK
ACC-500-245-R	Cable, RJ45 PLUG TO DB9F, ACC-500mm, 6 ft, BLACK