

Ositech Wireless Link for Philips HeartStart MRx



Ositech Wireless Link is a portable 4G LTE cellular and 802.11 (a/b/g/n/ac) WiFi data communication accessory for the Philips HeartStart MRx defibrillator. It is certified for use in the United States and Canada. The Wireless Link supports multiple modes of operation enabling the HeartStart MRx to transmit event or patient data to the HeartStart Telemedicine Server.

Using bridge mode when connecting to WiFi access points or router mode for cellular data connection, the Wireless Link can transfer data to the Telemedicine Server. Using access point mode, it allows a mobile PC to connect to the HeartStart MRx for uploading ePCR data for further processing. Wireless Link fits conveniently and securely inside the right-side pouch of the HeartStart MRx carrying case. HeartStart MRx detects the attached Wireless Link automatically and adds it to the list of Transmit devices available for data transmission to the Telemedicine Server.

The Wireless Link can be configured for a connection with up to 254 WiFi access points. If it is in an area where more than one authorized access point is available, it will select the most suitable access point based on the connection priority scheme defined during configuration.

During EMS transport of a patient the Wireless Link can connect to the HeartStart Telemedicine Server by either using a WiFi connection to an installed WiFi hotspot enabled Cellular Gateway in the ambulance, or directly over the Cellular Network using its built-in 4G cellular modem when the WiFi hotspot is not available. This provides additional flexibility to transfer data to the HeartStart Telemedicine Server. When the ambulance is back at its base station, the Wireless Link can connect to the base station's WiFi network to upload data from the HeartStart MRx.

Wireless Link is uniquely compatible for use on LTE cellular networks like Verizon, AT&T, T-Mobile, Rogers, Bell and Telus cellular networks in North America. Wireless Link can be configured in the field for use with any one of the available networks. This gives the user flexibility to change from one type of compatible cellular network to other without having to purchase another unit.

Powered from the HeartStart MRx, the Wireless Link design uses low power management techniques to conserve HeartStart MRx battery power.

Supported Wired Interfaces

Ethernet 10/100 Mbps,
Serial RS232

4G LTE Cellular

Technology

LTE
UMTS/HSPA
GSM/GPRS/EDGE

Maximum Data Rate:

4G: LTE Cat. 3: DL/UL – 100/50 Mbps
3G: HSPA+: DL/UL – 42/5.7 Mbps
2G: EDGE: DL/UL – 237/237 kbps
2G: GPRS: DL/UL – 85.6/85.6 kbps

Antenna: <= 3dBi, Monopole, Omni directional

Wireless LAN – 802.11

Dual Band Compatibility

2.4 GHz: 802.11 b/g/n;
5 GHz: 802.11 a/n/ac

Support for Regulatory Domains

Security: WEP, WPA-PSK, WPA2-PSK,
WPA-ENT or WPA2-ENT (Client mode)

Encryption: TKIP, AES (64/128 bit)

Antenna: <= 3dBi, Monopole, Omni directional

LED Indicators

Power; System Status; Ethernet Status;
Cellular Connection Status;
Wireless 802.11 Status;
Firmware Over The Air Status

Power Source

DC 12V, +/- 10%

Environmental

Operating: 32°F ~ 113°F (0°C ~ +45°C)
Storage: -4°F ~ 158°F (-20°C ~ +70°C)
Relative Humidity: Up to 95% non-condensing

Regulatory Compliance

Countries

United States
Canada

Ordering Part Number

PHP15443-GEN1

Regulatory Compliance

System

FCC Part 15 Subpart B Class B
IC ICES-003 Class B

Wireless LAN

FCC Part 15 Subpart C, E
IC RSS-210, -GEN

Cellular

FCC Part 15, 22H, 24E
IC RSS-102,-132,-133,-GEN

Cellular Industry

PTCRB

Cellular Networks

AT&T, Verizon, Verizon Public Safety, T-Mobile, Rogers, Bell, Telus

Wireless Link

Wireless Link fits inside a pouch of the HeartStart MRx carrying case.
Enclosure

Contents: Titan III, Antennas, cabling
Material: Microblend Plastic,
Color: Philips Ultra Dark 10714
Weight: 12.95 oz - 367 g
Size: 1.66" (H) x 4.60" (L) x 3.46" (W)
42mm (H) x 117mm (L) x 88mm (W)

Connections: Cable with Serial DB9 and Ethernet RJ45 mating
connectors for HeartStart MRx

Software

Functionality: Ethernet to WiFi (Bridge)
Ethernet to WiFi (Access Point)
Ethernet to Cellular (Router)

Configuration: On-board web based, accessed via Internet Explorer
(IE 7 or higher) under Windows® platform. Export/Import capability
to allow user to backup/restore configuration data. Exported
configuration data can be used for rapid configuration of multiple
Wireless Link adapters.