Wireless Link for Philips HeartStart MRx



Wireless Link is a portable wireless communication adapter for the Philips HeartStart MRx. It supports multiple modes of operation to transmit event or patient data. Using bridge mode for WiFi connection or router mode for cellular connection, the Wireless Link can transfers data to the Telemedicine System. Using WiFi access point mode it allows a mobile PC with WiFi to connect to the HeartStart MRx for uploading PCR data for further processing. Wireless Link fits conveniently and securely inside a pouch of the standard HeartStart MRx carrying case. It transmits data automatically from HeartStart MRx to the Telemedicine System using either a WiFi or a cellular connection.

The Wireless Link is not visible to other devices on the WiFi network thus preventing unauthorized connection attempts. The Wireless Link can be configured for connection with up to 254 WiFi access points. If it is in an area where more than one configured access point is available, it will select the most suitable access point based on a connection priority scheme defined during configuration.

During EMS transport of a patient the Wireless Link can connect securely to the HeartStart Telemedicine System, either using a WiFi connection to an installed Cellular Gateway in the ambulance or directly over the Cellular Network using its built-in 3G cellular modem thereby providing additional flexibility to transfer data securely to the HeartStart Telemedicine System. 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 uniquely supports both GSM and CDMA cellular technologies and can be configured for use with either GSM or CDMA networks. This gives the user flexibility to change from one type of compatible cellular network to another without having to buy another adapter.

Powered from the HeartStart MRx, the Wireless Link design uses low power management techniques to conserve battery power. When not transmitting, the Wireless Link can be put into sleep mode by the HeartStart MRx and woken up when transmission of data is required. This allows for the Wireless Link to be on standby with minimum impact on the HeartStart MRx battery.



Wireless Link TECHNICAL SPECIFICATIONS

153.6 Kbps

Supported Wired Interfaces

Ethernet 10/100 Mbps, Serial RS232

Cellular

Technology: GSM or CDMA (configurable)

HSPA, HSDPA, UMTS, 1xEVDO Rev A & Rev 0 3G: HSPA or 1xEVDO

2G (Fallback): GPRS/EDGE, 1xRTT

Antenna: <= 3dBi, Monopole, Omni directional Frequency: 850/900/1800/1900/2100 MHz Data Rates: Uplink* Downlink* **HSPA** 5.76 Mbps 14.4Mbps WCDMA 384 Kbps 384 Kbps **EDGE** 118.4 Kbps 236.8 Kbps **GPRS** 42.8 Kbps 86.6 Kbps 1xEVDO 1.8 Mbps 3.1 Mbps

Wireless LAN

1xRTT

Compliance: 802.11 b/g (2.4 GHz) Security: WEP, WPA-PSK, WPA2-PSK Encryption: TKIP, AES (64/128 bit)

153.6 Kbps

Data Rates: 1, 2, 5.5, 11 Mbps for 802.11 b; 6,9,12,18,24,36, 54 Mbps for 802.11g

Antenna: <= 3dBi, Monopole, Omni directional

LED Indicators

Power: PWR
System Status: RUN
Wireless 802.11: WF
Ethernet (Link & Activity): ETH
Cellular Connection: CEL

Power Source

DC 12V, +/- 10%

Current Draw

WiFi operating 254 mA, max 2G Upload 496 mA, max 3G Upload 496 mA, max

LPM/Idle <50 mA, RMS @ 22°C, DTR OFF

Environmental

Operating: $32^{\circ}F \sim 113^{\circ}F$ ($0^{\circ}C \sim +45^{\circ}C$) Storage: $-4^{\circ}F \sim 158^{\circ}F$ ($-20^{\circ}C \sim +70^{\circ}C$) Relative Humidity: Up to 95% non-condensing Helicopter: MIL STD 810E 514.4 Category 6, UH60

Compliance Regulatory

System

FCC Part 15 Subpart B Class B

IC ICES-003 Class B

EN55011/CISPR 11 Class B EN 301 489-1,-7,-17,-24

EN 60950-1

Wireless LAN

FCC Part 15 Subpart C

IC RSS-210 EN 300 328

Cellular

FCC Part 2, 22, 24, 27 IC RSS-102,-132,-133,-139

EN 301 511 EN 301 908-1, -2

Cellular Network

PTCRB, GCF, CTIA

Cellular Operator

AT&T, Verizon, Rogers

Environment

RoHS – Directive 2011/95/EC WEEE – Directive 2002/96/EC

Wireless Link

Fits snugly inside the pouch of Philips HeartStart MRx carrying case.

Enclosure

Contents: Titan II, 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/Hotspot)

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.

©2013 Ositech Communications, Inc. All rights reserved. Technical specifications are subject to change without notice. Titan II is a trademark of Ositech Communications Inc. Wireless Link is a trademark of Philips Medical



430 Laird Road 5-7 Tel: (519) 836-8063 Guelph, Ontario Fax: (519) 836-6156 Canada, N1G 3X7 www.ositech.com