



Wireless Communication Module
989803202921

PHILIPS

Table of Contents

ENGLISH	1
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Wireless Communication Module

ENGLISH

Introduction

This document explains how to use the features of the HeartStart Intrepid's Wireless Communication Module.

The Wireless Communication Module (hereafter "Communication Module") allows the HeartStart Intrepid monitor/defibrillator to wirelessly transmit data such as 12-lead ECGs, vital signs data, and event summaries over cellular/mobile networks to Philips Emergency Care Informatics Suite.

Setup and Connection

SIM Card Installation

To operate on cellular/mobile networks, the Communication Module must have a SIM (Subscriber Identification Module) card from your local cellular/mobile network provider installed.

© To install the SIM card:

- 1 Open the rubber plug to access the SIM slot.



- 2 Orient the SIM card beside the SIM slot.



- 3 Push the SIM card into the slot until it is fully seated and latches.



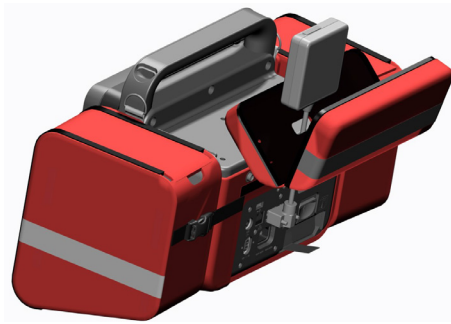
- 4 Close the rubber plug on the SIM slot.



Connecting the Communication Module

Depending on your carry case, place the Communication Module in either the rear pouch or side pouch. [Figure 1](#) shows the rear pouch installation. The side pouch installation is similar.

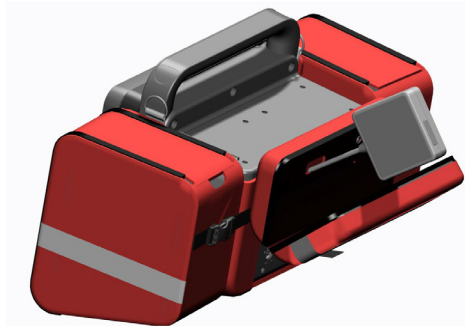
- ◎ To connect the Communication Module to the HeartStart Intrepid:
 - 1 Feed the Communication Module cable through the opening in the pouch.
 - 2 On the HeartStart Intrepid, attach the cable to the connector.
 - 3 Tighten the thumb screws to ensure a good connection.

Figure 1 Connecting the Communication Module and the HeartStart Intrepid

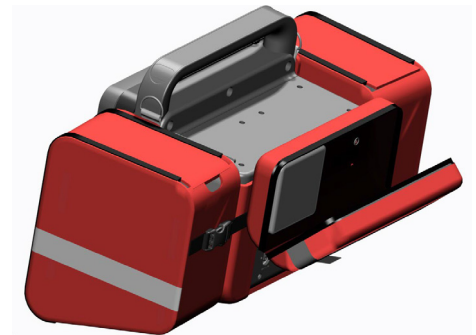
a. Unsnap the rear pouch from the HeartStart Intrepid, then insert the connector through the hole in the rear pouch.



b. Plug the connector from the Communication Module into the device, and tighten the two thumb screws.



c. Snap the rear pouch to the device.



d. Place the module in the rear pouch.

4 Turn on the HeartStart Intrepid.

The green LED on the Communication Module is on. The orange LED periodically turns on and off during communication with the local cellular/mobile network.



Configuring Communication on the HeartStart Intrepid

The HeartStart Intrepid defaults to Wi-Fi Mode. To configure the Intrepid for cellular wireless communication, ensure that the device is first switched to Cellular Mode.

- ☉ To configure the HeartStart Intrepid for cellular wireless communication:
 - 1 Press Smart Select knob, then from the Main Menu, choose **Switch to Cellular**.
 - 2 Press the Smart Select knob again, choose **Other**, and then choose **Configuration**.
 - 3 Select **Yes** to exit Clinical Mode, then press the Smart Select knob.
 - 4 From the Configuration menu, select **Cellular**.
The **Configuration - Cellular** screen is displayed.

Figure 2 **Configuration - Cellular**

Configuration - Cellular	
Connection Name	
Login Username	
Login Password	
APN String	

- 5 Complete the fields with information described in the HeartStart Intrepid *Instructions for Use* Configuration chapter. Contact your cellular mobile network provider to obtain the correct Access Point Number (APN) for the APN field.

Philips Emergency Care Informatics Suite

To use the Communication Module to wirelessly send information, configure the HeartStart Intrepid with an optional Reference ID to identify the Intrepid device that is sending the information to Philips Emergency Care Informatics Suite. Contact a Philips representative to obtain an Emergency Care Informatics Suite account.

- ☉ To configure the HeartStart Intrepid for sending data:
 - 1 Press the Smart Select knob.
 - 2 From the Main Menu, choose **Other**, then choose **Configuration**.
 - 3 Press the **[Next Screen]** soft key to access the **Communication** screen.
The **Configuration - Communication** screen is displayed. Use the Smart Select knob in the following steps to navigate through the Communication screen.

Figure 3 Configuration - Communication screen

Configuration - Communication		
Reference ID	Intrepid SN: CNX000999 EMS ID: 0225	
Cloud URL	https://www.philips-emergencycare.com	
Account ID	902101	
Destination 1	CENTRE HOSPITALIER	Enabled
Destination 2	HOSPITAL GENERAL RIO CARRION	Enabled
Destination 3		Disabled
Destination 4		Disabled
Destination 5		Disabled

- 4 Navigate to **Reference ID**, and optionally enter a Reference ID (use the Smart Select knob to select a letter from the displayed keypad, then press the Smart Select knob to enter a letter). The Reference ID is not required, but may be used to identify the Intrepid device or the vehicle that the device is assigned to.
- 5 Navigate to **Cloud URL**, then enter your Philips Emergency Care Informatics Suite URL.

NOTE: The URL varies depending on your country and location. Obtain the correct URL from your Philips representative.

- 6 Navigate to **Account ID**, then enter the six-character Philips Emergency Care Informatics Suite account ID.
- 7 Use the Smart Select knob to navigate to each Destination field as desired.
The **Destination** field contains the identification of the hospital or medical facility that has access to the data that is sent from the HeartStart Intrepid. The destination must be enabled in order for the HeartStart Intrepid to send data to that location. The Destination field is not required. If no destination is specified, the data is available only to the HeartStart Intrepid device owner.
- 8 Optionally enter one or more destinations using the Smart Select knob as described above.

Sending Data with the Communication Module

Use the Communication Module to send data during patient care or following an event. During an event, 12-lead ECGs or vitals data can be sent. Following an event, the Event Summary can be sent. For more information on sending data, see the Data Management chapter in the HeartStart Intrepid *Instructions for Use*.

NOTE: Successful transmission is dependent on the availability of public or private telecommunication networks and other influencing factors, particularly for cellular/mobile communications. These factors include but are not limited to weather, geography, transmitting location, cellular service availability, the number of cellular service users in the area, and authorization/subscription from the cellular service provider. Make sure you have a contingency plan for interrupted or unsuccessful data transmissions.

The steps to send data from the HeartStart Intrepid are the same for Wi-Fi and cellular/mobile broadband communication.

- ☉ To send the current 12-lead data from 12-Lead Mode during an event:

 - 1 In 12-Lead Mode, press the **[Start Acquire]** soft key. When the 12-lead acquisition is complete, press the **[Send]** soft key.
If the device has been configured with a destination list, the list is displayed.
 - 2 Select the destination for the 12-lead report, then press the Smart Select knob. Data transmission begins when a destination is chosen.
 - 3 If multiple 12-lead reports have been taken during the event, use the Smart Select knob to choose **Reports**, then select a report from the list.
 - 4 Press **[Send]** to begin data transmission.
When sending is finished, the message **Transmit Succeeded** is displayed.
If data fails to send, an alert message **Transmit Failed** is displayed. Ensure that the cellular connectivity icon  is lit, then send the data again.
 - 5 Select **OK**, then press the Smart Select knob to close the window.
- ☉ To send vitals data from Clinical Mode during an event:

 - 1 Verify that the HeartStart Intrepid is in Monitor Mode (not 12-Lead Mode).
 - 2 Press the Smart Select knob, then from the pop-up menu, select **Transmit Vitals**.
 - 3 Press the Smart Select knob to begin transmission.
If the device has been configured with a destination list, the list is displayed.
 - 4 Select the destination, then press the Smart Select knob. Data transmission begins when a destination is chosen.
When transmission is complete, the message **Transmit Succeeded** is displayed.
If data fails to send, an alert message **Transmit Failed** is displayed. Ensure that the cellular connectivity icon  is lit, then send the data again.
 - 5 Select **OK**, then press the Smart Select knob to close the window.
- ☉ To send Event Summaries from Data Management Mode following an event:

 - 1 Press the Smart Select knob.
 - 2 From the menu, choose **Other**, then choose **Data Management**.
 - 3 Select **Yes**, then press the Smart Select knob to exit Clinical Mode.
The **Data Management - Internal Memory** screen displays with a list of events stored in Data Management internal memory.

NOTE: Time to populate the list varies with the amount of memory data (more data requires more time).

- 4 From the **Data Management - Internal Memory** screen, turn the Smart Select knob to scroll to the event to be sent. Then press the Smart Select knob.
- 5 From the pop-up menu, select **Transmit Event**.
- 6 Select a destination, then press the Smart Select knob to begin transmission.
When sending is finished, the message **Transmit Succeeded** is displayed.
If data fails to send, an alert message **Transmit Failed** is displayed. Ensure that the cellular connectivity icon  is lit, then send the data again.
- 7 Select **OK**, then press the Smart Select knob to close the window.

Cleaning

The Communication Module can be cleaned using the same cleaning instructions for your HeartStart Intrepid monitor/defibrillator listed in the Maintenance chapter of the HeartStart Intrepid *Instructions for Use*.

Specifications

Part Number: 989803202921 Wireless Communication Module

Weight: 0.25 kg (0.55 lb) including cable

Dimensions: 96 mm X 90 mm X 26 mm (3.8 in x 3.5 in x 1 in) excluding cable

Cable Length: 50 cm (20 in)

Temperature: 0°C to 45°C (32°F to 113°F) operating; -20°C to 70°C (-4°F to 158°F) storage

Maximum operating temperature: 45°C

Humidity: Up to 95% relative humidity, non-condensing

Input Rating: 9V-18V $\pm$ 5% DC, Max 1.5A

Cellular transmission (3G): For user name/password authentication, the Communication Module supports authentication types: none/PAP/CHAP. The Communication Module will sequentially try these authentication protocols until the authentication succeeds.

Technology: UMTS/HSPA/EDGE/GPRS/GSM

Frequency

- 3G UMTS/HSDPA/HSUPA: 800/850/900/1900/2100 MHz (Band19, Band5, Band8, Band2, Band1)
- 2G GSM/GPRS/EDGE: 850/900/1800/1900 MHz

Data Rate (maximum)

- 3G: HSPA: DL/UL - 7.2/5.76 Mbps
- 3G: UMTS: DL/UL - 384/384 Kbps
- 2G: EDGE: DL/UL - 236.8/236.8 Kbps
- 2G: GPRS: DL/UL - 85.6/85.6 Kbps
- 2G: GSM: DL/UL - 9.6/9.6 Kbps

Antenna

- Radiation Pattern: Omni-directional
- Gain factor: $\leq$ 4 dBi

Table 1 Effective Isotropic Radiated Power

Technology	Bands	Transmitter RF Power Levels	Antenna Gain	EIRP
GSM/GPRS	850 MHz	Power Class 4 (2 W, 33 dBm)	-2.39 dBi	30 dBm
GSM/GPRS	900 MHz	Power Class 4 (2 W, 33 dBm)	-1.63 dBi	31 dBm
GSM/GPRS	1800 MHz	Power Class 1 (1 W, 30 dBm)	-1.87 dBi	28 dBm
GSM/GPRS	1900 MHz	Power Class 1 (1 W, 30 dBm)	-2.35 dBi	27 dBm
EDGE	850 MHz	Power Class E2 (0.5 W, 27 dBm)	-2.39 dBi	24 dBm
EDGE	900 MHz	Power Class E2 (0.5 W, 27 dBm)	-1.63 dBi	25 dBm
EDGE	1800 MHz	Power Class E2 (0.4 W, 26 dBm)	-1.87 dBi	24 dBm
EDGE	1900 MHz	Power Class E2 (0.4 W, 26 dBm)	-2.35 dBi	23 dBm

Table 1 **Effective Isotropic Radiated Power (Continued)**

Technology	Bands	Transmitter RF Power Levels	Antenna Gain	EIRP
UMTS/ HSDPA/ HSUPA	850 MHz	Power Class 3 (0.25 W, 24 dBm)	-2.39 dBi	21 dBm
UMTS/ HSDPA/ HSUPA	900 MHz	Power Class 3 (0.25 W, 24dBm)	-1.63 dBi	22 dBm
UMTS/ HSDPA/ HSUPA	1900 MHz	Power Class 3 (0.25 W, 24dBm)	-2.35 dBi	21 dBm
UMTS/ HSDPA/ HSUPA	2100 MHz	Power Class 3 (0.25 W, 24 dBm)	-2.62 dBi	21 dBm

Federal Communication Commission Interference Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The equipment should be placed and operated with minimum distance of 23 cm between the radiator and your body.

L'appareil doit être installé et actionné avec une distance minimale de 23 cm entre le radiateur et votre corps.

Industry Canada Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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