

Wireless Repeater

Features

- Wireless Repeater (NUREP)
- Access Point for Wireless Patient Devices
- Range Extender on 2.4 GHz
- Configurable to operate as Wireless Gateway: USB connection with an NIRC3 is required
- Replaces the NIRX
- RGB status LED
- USB or DC-powered (5 VDC)
- 2 x 1.5V / AA battery backup
- Can be mounted outdoors when using a dedicated outdoor box
- Dual radio transceivers
- 869 MHz (EU) or 916 - 921 MHz (US) band
- 2.4 GHz IEEE 802.15.4 Transceiver
- Easy to expand in existing systems
- No expensive cabling cost



Description

The wireless repeater (NUREP) is a surface (wall) mounted teleCARE IP wireless infrastructure building block containing dual radio transceivers, an 869 MHz (EU) or 916 - 921 MHz (US) RF transceiver for local traffic from wireless patient devices and a 2.4 GHz IEEE 802.15.4 transceiver (supporting channels 15, 16, 20, 21 and 25) for wireless communication between repeaters and the wireless gateway.

Wireless repeaters are used to create a wireless infrastructure that covers the whole site. Wireless repeaters are mainly used indoors, however with the help of a dedicated outdoor box, outdoor use is possible.

Wireless repeaters are USB or DC-powered (5 VDC) via the included adapter, but they do have a battery backup source as well, in case the mains power fails.

Wireless repeaters are supervised by the central equipment.

Wireless repeater or wireless gateway functionality configurable through DIP-switch setting.

Wireless Gateway Functionality

In combination with an NIRC3, the wireless repeater can be configured as a wireless gateway used to relay wireless messages to and from the wireless server. A wireless gateway can serve up to 12 repeaters divided into three subnets each containing a maximum of four wireless repeaters.

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Technical Specifications

Markets:		EU	US	UK	ANZ
Housing Color	White (NCS S 0603-G80Y)	•	•	•	•
Housing material:	PC/ABS, Flammability class: HB				
Dimensions (W x H x D)	149 x 121 x 44 mm / 5.87 x 4.76 x 1.73 inch				
Electrical connections:	1 x 5 VDC power connector - For connecting the supplied 5 VDC Class II power adapter				
	4 x battery clips (Battery backup power source) for placing 2 x 1.5 V / AA alkaline batteries (not included)				
	1 x micro USB connector for USB (power) connection to NIRC3, (only applicable when configured as Wireless Gateway). Also used for future firmware updates.				
Battery life:	Approximately: 5 hours				
Minimum current:	?				
Maximum current:	?				
Status LED:	Tricolor (red / green / blue)				
Transmitter frequency:	869 MHz (EU)	•		•	
	916 - 921 MHz (US)		•		•
	2.4 GHz IEEE 802.15.4 - channels 15, 16, 20, 21 and 25	•	•	•	•
RF Range:					
869 MHz (EU)	30 meters / 100 feet	•		•	
916 - 921 MHz (US)	30 meters / 100 feet		•		•
2.4 GHz IEEE 802.15.4	Indoors: 50 meters / 165 feet Outdoors: 400 meters / 1300 feet (line of sight)	•	•	•	•

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Markets:		EU	US	UK	ANZ
Environment:	Operating temperature: 0°C to 40°C / 32°F to 104°F Storage temperature: -25°C to 55°C / -13°F to 131°F Relative Humidity: 30 to 85% (non condensing) Enclosure protection rating: IP40	•		•	•
Environment: (UL 2560 installations)	Operating temperature: 10°C to 49°C / 50°F to 120°F Storage temperature: -25°C to 55°C / -13°F to 131°F Relative Humidity: 0 to 95%, non condensing at 40°C / 104°F Enclosure protection rating: IP40		•		
Regulatory Compliance EU/EFTA	 VDE 0834 RoHS 2011/65/EU and Radio Equipment Directive 2014/53/EU Complies with the relevant dates and amendments of the following EN standards (the valid references to dates and amendments are stated in the Declaration of Conformity): EN 301 489-1 EN 301 489-3 EN 300 220 EN 300 330 EN 60950-1	•			
Regulatory Compliance US/CAN	 ANSI/UL 2560 CAN/CSA C22.2 No. 205 FCC part 15C RSS 210		•		
Regulatory Compliance Australia / New Zealand	 AS 3811				•
Accessories:	USB to micro USB Cable	•	•	•	•