

# Roger X

(03)

## Technical Data

roger

Roger X is a miniature universal Roger receiver that is compatible with virtually every hearing instrument and cochlear implant speech processor on the market.

Simply connect Roger X with a Roger wireless microphone to bring industry-leading speech-in-noise performance to any person with a moderately-severe to profound hearing loss.

### Roger X features

- Additional adaptive gain
- AutoConnect
- Effective stand-by mode

### What is Roger

Roger is the new digital standard that bridges the understanding gap, in noise and over distance, by wirelessly transmitting the speaker's voice directly to the listener.

### General data

Type:	Miniature universal Roger receiver Operates with Roger Pen and Roger Clip-On Mic
Color:	Silver Gray
Length:	9 mm / 0.354 inch
Width:	9 mm / 0.354 inch
Height:	9.65 mm / 0.38 inch
Weight:	0.97 g / 0.0022 lb
Operating conditions:	The product has been designed for trouble-free operation without restrictions when used as intended, unless otherwise stated in the user guide. 0° to +60° Celsius / +32° to +140° Fahrenheit and relative humidity < 95 % (non condensing)
Transport and storage conditions:	-20° to +60° Celsius / -4° to +140° Fahrenheit and relative humidity of 90 % for a long period of time



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## Roger characteristics

Frequency:	2.4 GHz ISM Band
Transmission delay:	< 20 ms
Antenna:	Built-in antenna
Backlink RF power:	0.02 mW

## Audio characteristics

Audio bandwidth:	100 Hz – 7.2 kHz
Distortion:	< 2 % for fmod = 1 kHz
Audio signal output:	–54 dBV (transmitter in compression, fmod = 1 kHz, surrounding noise level < 58 dB SPL)
Additional adaptive audio gain:	Up to 20 dB

## Power management

Power supply:	Supplied by the HI battery
Voltage range:	1.0 to 1.5 V
Current drain*:	Active mode 2.7 mA for V <sub>BAT</sub> = 1.2 V Sleep mode 0.5 mA for V <sub>BAT</sub> = 1.2 V

## Standards

Radiocom:	EN 300 440 FCC part 15.249
EMC:	EN 60601-1-2, EN 301 489 FCC part 15b

## Compatibility

Excluded compatibility:	Advanced Bionics Neptune Advanced Bionics Harmony/Aria Cochlear Nucleus 5/6 Cochlear Freedom Cochlear Esprit
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\*Valid for receivers with serial number higher than 1415NY9E3. Receivers with lower serial number drain 3.3 mA mode in active and 700 uA in sleep mode.