

Roger X

(02)

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
- EasyGain adjustment
- Check to read / manage device data via Roger inspiro
- Link quality measurement

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 microphones
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 $f_{mod} = 1$ kHz
Audio signal output:	-54 dBV (transmitter in compression, $f_{mod} = 1$ kHz, surrounding noise level < 58 dB SPL) @ EasyGain = 0dB
Additional adaptive audio gain:	Up to 20 dB
EasyGain range:	-8 dB to +8 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 $V_{BAT} = 1.2$ V Sleep mode 0.5 mA for $V_{BAT} = 1.2$ 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
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*Valid for receivers with serial number higher than 1414NYF1L. Receivers with lower serial number drain 3.3 mA mode in active and 700 uA in sleep mode.