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# Roger X

## Technical Data



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 inspiro
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



## Roger characteristics

Frequency:	2.4 GHz including adaptive automatic frequency hopping
Transmission delay:	< 20 ms
Antenna:	Built-in antenna
Backlink RF power:	< 10 mW / MHz

## 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)
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 < 3.2 mA for $V_{BAT} = 1.2$ V Sleep mode < 700 $\mu$ A for $V_{BAT} = 1.2$ V

## Standards

Radiocom:	EN 300 328 FCC part 15.249
EMC:	EN 60601-1-2 FCC part 15b