

# Roger 17

(02)

Technical Data

**roger**

Roger 17 is a design-integrated Roger receiver that is designed for use with the Advanced Bionics Naída CI Q70 sound processor.

Simply attach the Roger 17 receiver to the Naída CI sound processor. When the speaker uses a Roger wireless microphone, Naída CI recipients have the opportunity to benefit from industry-leading speech-in-noise performance.

## Roger 17 features

- Adaptive gain
- 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:                             | Design-integrated Roger CI receiver<br>Operates with all Roger microphones   |
| Length:                           | 18.7 mm / 0.736 inch   |
| Width:                            | 9 mm / 0.354 inch  |
| Height:                           | 10.6 mm / 0.417 inch   |
| Weight:                           | 0.94 g / 0.032 oz  |
| 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 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: | -46 dBV (transmitter in compression, $f_{mod} = 1$ kHz, surrounding noise level < 58 dB SPL) @ EasyGain = 0dB |
| Adaptive audio gain: | Up to 20 dB   |
| EasyGain range:      | -8 dB to +8 dB  |

## Power management

|                 |   |
|-----------------|---|
| Power supply:   | Supplied by the CI sound processor battery  |
| Voltage range:  | 1.0 to 1.5 V  |
| Current drain*: | Active mode 2.8 mA for $V_{BAT} = 1.2$ V<br>Sleep mode 0.5 mA for $V_{BAT} = 1.2$ V |

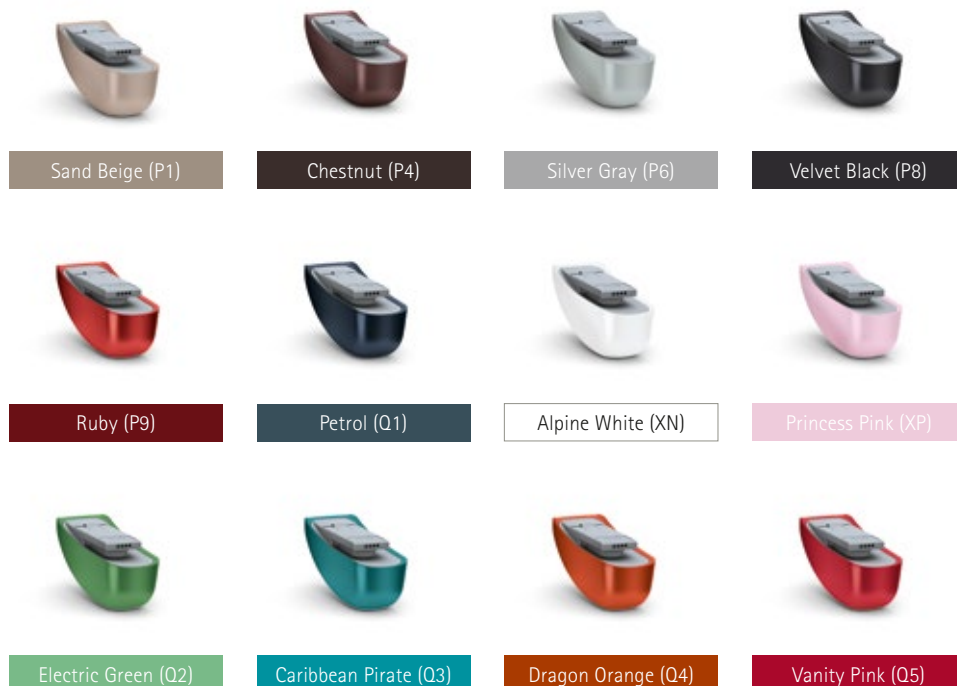
## Standards

|                  |  |
|------------------|--|
| Radiocom:        | EN 300 440<br>FCC part 15.249            |
| EMC:             | EN 60601-1-2, EN 301 489<br>FCC part 15b |
| Water Resistant: | IP54 <sup>1</sup>                        |

## Compatibility

|                                      |              |
|--------------------------------------|--------------|
| Advanced Bionics CI sound processor: | Naida CI Q70 |
|--------------------------------------|--------------|

## Housing colors



<sup>1</sup> IP54 indicates that splashing water from any direction for 5 min had no harmful effect on the CI sound processor and attached Roger receiver.

\*Valid for receivers with serial number higher than 1419NY1UL. Receivers with lower serial number drain 3.4 mA mode in active and 700 uA in sleep mode.