

# MicroLink™ Freedom

## Technical Data



### MicroLink™ Freedom features

- Classic FM
- For Nucleus Freedom BTE with standard battery case
- Automatic Frequency Synchronization (AFS) with WallPilot
- Direct Frequency Synchronization (DFS) with any Phonak FM transmitter
- Fully programmable with FM SuccessWare

MicroLink Freedom is the world's unique design-integrated FM receiver for a CI speech processor and is offered exclusively to Nucleus Freedom BTE users. This multi-frequency FM receiver is discrete and comfortable to match the sophisticated curves of the Freedom BTE processor and is of course compatible with all Phonak transmitters.



MicroLink™ Freedom and Nucleus Freedom

### Color options



### Relevant internet pages

Your online comprehensive FM support tool for schools  
[www.eSchoolDesk.com](http://www.eSchoolDesk.com)

Latest set-up tips for FM systems in combination with hearing instruments and Cochlear implants.  
[www.phonak.com/FM\\_Configurator](http://www.phonak.com/FM_Configurator)

Your online FM knowledge base  
[www.FMeLibrary.com](http://www.FMeLibrary.com)

Your online FM counseling support tool  
[www.FMCounselWare.com](http://www.FMCounselWare.com)

# Technical Data

MicroLink™ Freedom

## General data

Type:	Classic FM receiver
Length:	21 mm
Width:	14 mm
Height:	37 mm
Weight (without batteries):	3.3 g
Operating temperature range:	-10°C to +60°C

## HF characteristics

Frequency range:	169 – 176 MHz (H-band) 214 – 220 MHz (N-band)
Frequency:	Multi-channel, quartz-stabilized
Frequency stability:	Better than +/- 10 ppm
Modulation:	FM (narrow band) Max. frequency deviation $\Delta f = 8$ kHz
Adjacent channel selectivity at $\Delta f_{RX} = +/- 150$ kHz:	> 50 dB
Antenna:	Ear level FM antenna
Sensitivity at $E = 3$ mV/m:	SINAD $\geq 22$ dB
Signal-to-noise ratio:	55 dB

## Audio characteristics

Audio bandwidth:	100 – 7500 Hz (-3 dB)
Total Harmonic distortion (THD):	< 2% for $f_{mod} = 1$ kHz and $\Delta f_{dev} = 3$ kHz

## Power management

Voltage range (extrem):	0.9 to 1.6 V	
Current drain (typical):	Active mode	2.1 mA (1.2 V)
	Standby	< 200 $\mu$ A (1.2 V)

## Standards

EMC:	According to ETS 300445 standard
IEC approval:	According to ETS 300442 standard