

MLxi / MLxi Baha

Technical Data



MLxi

MLxi Baha

MLxi features

- Dynamic FM
- AutoConnect
- Durable
- Easy and intuitive user interface
- By far the smallest universal receiver in the market
- Automatic frequency Synchronization (AFS) with WallPilot
- Direct Frequency Synchronization (DFS) with the **inspiro** or any other Phonak FM transmitter
- Intelligent stand-by mode to save power when the transmitter is switched off
- Fully programmable with FM SuccessWare 4.01 or higher
- MLxi Baha is the dedicated Dynamic FM receiver for Intenso, Divino and Compact from Cochlear

MLxi is the new standard universal Dynamic FM receiver. MLxi is compatible with virtually all hearing instrument brands and types. Handling has never been so easy: plug-in and listen! No doubts about 'DPAI yes' or 'no', MLxi will manage this automatically. No need for verification. Always right on target! And most important: a new and brilliant sound quality.

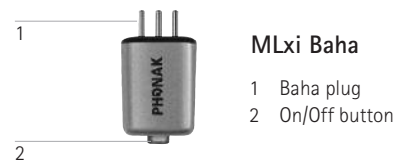
MLxi – the new global standard universal receiver

Product description



MLxi

- 1 Euro plug
- 2 On/Off button



MLxi Baha

- 1 Baha plug
- 2 On/Off button

Relevant internet pages

Your online comprehensive FM support tool for schools
www.eSchoolDesk.com

Latest set-up tips for FM systems in combination with hearing instruments and Cochlear implants.
www.phonak.com/FM_Configurator

Your online FM knowledge base
www.FMELibrary.com

Your online FM counseling support tool
www.FMCounselWare.com



MLxi / MLxi Baha

General data

Type:	Dynamic FM receiver
Length:	9 mm
Width:	9 mm
Height (without pins):	12 mm
Weight:	1.1 g
Operating temperature range:	-10°C - +60°C

HF characteristics

Frequency range:	169.4 - 176 MHz (H-band) 214 - 220 MHz (N-band)
Frequency:	Multi-channel, quartz stabilized
Frequency stability:	Better than +/-10ppm
Modulation:	FM (narrow band)
Antenna:	Isotropic ear level FM antenna
Spurious emissions (EMC):	- 57 dBm ERP
Sensitivity at E = 3mV/m:	SINAD ≥ 15 dB
Selectivity at $\Delta f_{RX} = \pm 125\text{kHz}$:	> 50 dB

Audio characteristics

Audio bandwidth:	100 - 6000 Hz
Distortion (THD):	< 2 % Full quieting FM $f_{mod} = 1\text{kHz}$ $\Delta f = 5\text{kHz}$
Audio signal output:	-40 to -70 dBV at $f_{mod} = 1\text{kHz}$ $\Delta f = 4\text{kHz}$

Power management

Power supply	Supplied by the HI battery	
Voltage range (extreme)	0.9 to 1.6 V	
Current drain:	Active mode	< 3 mA
	Sleep mode	< 510 μA

Standards

Radiocom:	EN 300.422
EMC:	EN 301.489 FCC

Dynamic FM System data for inspiro and Dynamic FM receivers

Adaptive FM Advantage (AFMA): (Ambient noise level ≥ 73 dB SPL)

Dynamic FM advantage over the Hearing instrument: up to 25 dB

Dynamic FM advantage over a traditional FM system: up to 15 dB

Voice Activity Detection (VAD):

Attack time: 5 ms

Hold-on time: 5 seconds

Release time: 2 seconds

Voice off attenuation: -26 dB

Wireless Dynamic FM:

Frequency range: Above the audio band

Operating range: As FM operating range

Wireless programming, monitoring and setting of FM Advantage:

FSK Link: Frequency 40.96 kHz / Data rate 1000 - 2000 Bit/s

Link from the receivers to the **inspiro**

OOK Link: Frequency 8.192 kHz / Data rate 1024 Bit/s

Link from the **inspiro** to the receivers

Operating range: 20 cm / 8 inches

MultiTalker Network*:

Digital network for up to 10 transmitters

Frequency: 2.4 GHz / Data rate 2 Mbits/s

Operating range between the **inspiro** transmitters: 8 m

* Also available if **inspiro** is used with traditional FM receivers.