

ML11i for Naída S SuperPower (SP)

Technical Data



ML11i features

- Dynamic FM
- Durable
- WaterResistant as is the Naída SuperPower
- 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 4.1 or higher



ML11i

ML11i is the tiny, design-integrated Dynamic FM receiver for Phonak SuperPower. ML11i, like Naída is WaterResistant. ML11i offers everything Dynamic FM encompasses. The hearing care professional can attach or remove an ML11i easily with just one pin.

ML11i for Naída S SP: together they form a powerful communication solution for power users.

ML11i is also compatible with Naída SP, Naída SP Junior, Milo Plus SP, Milo SP and OK! Plus SP.

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

ML11i for Phonak SuperPower BTEs

General data

Type:	Dynamic FM receiver
Length:	12 mm
Width:	9 mm
Height (on the HI):	8 mm
Weight:	1.0 g
Operating temperature range:	-10°C to +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:	Ear level FM antenna
Spurious emissions (EMC):	< -54 dBm ERP
Sensitivity at E = 3mV/m:	SINAD ≥ 15 dB
Selectivity at Δf _{RX} = ±125kHz:	> 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 transmitter to the receivers

OOK Link: Frequency 8.192 kHz / Data rate 1024 Bit/s
Link from the receivers to the inspiro

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 transmitters: 8 m

* Also available if inspiro is used with traditional FM receivers