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Solutions to improve the quality of life



# ML11i for Naída SuperPower

## 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** is the tiny, design-integrated Dynamic FM receiver for Naída SuperPower. ML11i, like Naída is WaterResistant. ML11i offers everything Dynamic FM encompasses. The hearing care professional can attach or remove an ML11i in no time with just one pin.

**ML11i** for Naída SuperPower: together they form a powerful communication solution for power users.



### 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)

# ML11i for Naída SuperPower

## General data

Type:	Dynamic FM receiver
Length:	12 mm
Width:	9 mm
Height:	14 mm
Weight:	1.0 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:	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

## 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 $\mu\text{A}$

## 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 $f_{mod} = 1\text{kHz}$
	$\Delta f = 4\text{kHz}$

## 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 $\geq 73$ dB SPL)

Dynamic FM advantage over the Hearing instrument:	25 dB
Dynamic FM advantage over a traditional FM system:	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 and monitoring:

FSK Link:	Frequency 8.192 kHz / Data rate 1024 Bit/s Link from the <b>inspiro</b> to the receivers
OOK Link:	Frequency 40.96 kHz / Data rate 1000 - 2000 Bit/s Link from the receivers to the <b>inspiro</b>
Operating range:	20 cm / 8 inches

### MultiTalker Network\*:

Digital network for up to 10 Speakers
Frequency: 2.4 GHz / Data rate 2 Mbits/s
Operating range between the <b>inspiro</b> speakers: 8 m

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