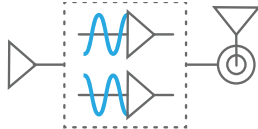


**MPR52-ENG** is a portable, compact two-channel battery-powered receiver designed for professional wireless microphone applications.

### Wideband RF Technology

The MPR52-ENG with our next-generation multiband front-end filtering is the only portable field receiver able to deliver two bands - up to 790 MHz of bandwidth (between 470 and 1260 MHz) in a single receiver (see details below)



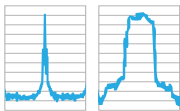
### Antenna-Diversity Reliability

The MPR52-ENG features antenna diversity configuration and true diversity in single channel mode for range and reception reliability that's unsurpassed compared to any dual channel receiver in its size.



### Selectable Modulation Compatibility

The MPR52-ENG has the ability to change reception compatibility between Wideband or Narrowband Channel Filters.



### DIGICOM Multi-Brand Compatibility

This optional software enables the use of third-party transmitters with Wisycom receivers - utilize an existing arsenal of belt packs, handheld or plug-on transmitters.



### Multi-Companding

Precisely handling the second part of the companding process, the MPR52-ENG accurately expands the delivered audio signal with Wisycom's proprietary ENC and ENR companding algorithm.



### Other Features:

- DSP Analogue & Digital Audio Outputs (AES3)
- Next Gen Multiband front-end filtering:
  - High Q moving filter in 470-960 MHz
  - High Q moving filter in 960-1160 MHz (DME)
  - Country specific saw filters:
    - USA 940-960 MHz & Japan 1240-1260 MHz
- Wideband and Narrowband DSP-FM operation (SW selectable):
  - Narrowband enables twice the channels
  - Narrowband enables 3dB more sensitivity - better RF reliability and range
- High contrast OLED display and 4 buttons enable quick manual setup
- Transmitter programming via infrared
- Miniature design with integrated battery pack: rechargeable lithium pack or 2 x AA batteries
- Charging for lithium pack via USB connector
- Monitor & control through USB and Wisycom Manager 2.0 (computer SW)
- The MPR52 can be used as a quick, low noise portable spectrum scanner!



Subject to change without notice

Wisycom Italy  
Wisycom Srl - Via Spin, 156 - I-36060  
Romano d'Ezzelino (VI) - Italy  
Tel. +39 0424 382605  
Fax. +39 0424 382733

**WISYCOM™**  
www.wisycom.com  
sales@wisycom.com

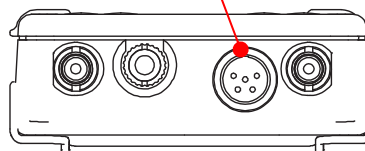
Wisycom USA  
5228 Eisenhower Avenue  
Alexandria, Virginia 22304  
Tel. +1 (888) 947-9266  
e-mail : sales@wisycomusa.com

### TECH SPECS

<b>Frequency ranges</b>	470 ÷ 800 MHz and 960 ÷ 1160 MHz (DME) MPR52 B1 · option 940 ÷ 960 MHz MPR52 B2 · option 1240 ÷ 1260 MHz
<b>Switchable channels</b>	2400 user programmable frequencies, organized in 40 groups of 60 channels.
<b>Switching-window</b>	up 790 MHz.
<b>Frequencies</b>	microprocessor controlled frequency synthesizer circuit, with 5 kHz minimum step. The frequencies can be easily PC reprogrammed with the optional UPKmini Programming Kit or micro-USB
<b>Frequency error</b>	< ± 2.5 ppm, in the rated temperature range.
<b>Temperature range</b>	-10 ÷ +50 °C.
<b>Modulation</b>	FM mono, wideband or narrowband IFB (SW selectable)
<b>Max deviation</b>	±54 kHz (wideband), ± 40 kHz (narrowband)
<b>Antenna input imp.</b>	50 ohm sma type (SWR < 1:2; typ. 1:1.4).
<b>Sensitivity</b>	⇒ 2µV(6dBµV), for SND/N > 58dB; ⇒ 5 µV (14 dBµV), for SND/N > 98 dB. in the whole switching-window [1].
<b>Amplitude response</b>	< 0.5 dB (for RF input signal: 6 dBµV ÷ 100 dBµV).
<b>Adjacent chan. Sel.</b>	> 80 dB typical (for channel spacing ≥ 400 kHz)
<b>Spurious emissions</b>	< 2 nW (typical = 0.1 pW).
<b>Noise Reduction</b>	ENR / ENR-1.2 (Wisycocom Extended-NR) , noise optimized ENC / ENC-1.2 (Wisycocom Extended-NC), voice optimized & with reduced pre-emphasis ENS (for live application) ⇒ Others, compatible with most systems, thru an internal DSP emulation of SA572, SA575 and Rms envelope compander chip set, fully user programmable
<b>AF bandwidth</b>	30 Hz ÷ 20 kHz (wideband), 30 Hz ÷ 15 kHz (narrowband)
<b>Frequency response</b>	±0.5dB in the 30Hz÷19kHz range (wideband), ±0.5dB in the 30Hz÷13kHz (narrowband)
<b>Distortion</b>	0.3 % typical.
<b>SND/D ratio (Anal.)</b>	100 dB typical [1]
<b>SND/D ratio (AES3)</b>	> 125 dB typical
<b>Powering</b>	- 2 x IEC-LR6 1.5V size-AA alkaline or NiMh rechargeable - C3-V3 battery pack - KLIC 8000 or CR-V3R lithium (i.e. DR9708 duracell)
<b>Battery life</b>	approx. 5 hours with MPRLBP Lithium-ion battery pack CS-KLIC8000 type (double receiver configuration) approx. 7 hours with MPRLBP Lithium-ion battery pack CS-KLIC8000 type (single receiver configuration)
<b>Weight</b>	100 g approx. without batteries
<b>Audio Output</b>	
<b>Audio Output</b>	Electronically balanced on 5 pin mini-XLR Female connector analogue or digital (SW selectable)
<b>Digital line 1 &amp; 2</b>	Electronically balanced on 5 pin mini-XLR Male connector
<b>Digital line-output</b>	AES3 @ 48 kHz
<b>Audio line Impedance</b>	≤ 200 ohm
<b>Headphone-output</b>	Stereo Plug 3.5mm(TRS) Locking (M6 x 0.5 thread) with 2 X 100mW @ 32 Ohm

**In compliance with** USA: FCC, 47 CFR 15 Subpart B  
CAN RSS-Gen/CNR-Gen

1: GND  
2: +Out1  
3: - Out1  
4: +Out2  
5: - Out2



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