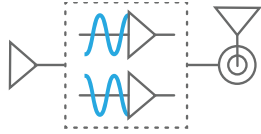


**MPR51-ENG** is a portable, compact battery-powered receiver designed for professional wireless microphone applications.

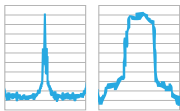
### Wideband RF Technology

The MPR51-ENG features a unique wideband tuning range with up to 230 MHz of bandwidth (between 470 and 700 MHz) in a single receiver.



### Selectable Modulation Compatibility

The MPR51-ENG has the ability to change reception compatibility between Wideband or Narrowband Channel Filters.



### Multi-Companding

Precisely handling the second part of the companding process, the MPR51-ENG accurately expands the delivered audio signal with Wisycom's proprietary ENC and ENR companding algorithm.



### True-Diversity Reliability

The MPR51-ENG features true diversity for range and reception reliability that's unsurpassed compared to any dual channel receiver in its size.



### 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.



### Other Features:

- DSP Analogue & Digital Audio Outputs (AES3)
- Wideband and Narrowband Channel Filters (DSP-FM operation, SW selectable):
- Narrowband enables twice the channels
- Narrowband enables 3dB more sensitivity – better RF reliability and range
- Extremely low noise VCO with ultrafast spectrum scan for quick frequency selection
- High contrast OLED display and 4 buttons enable quick manual setup
- Transmitter programming via infrared
- Miniature design with integrated battery pack:
  - rechargeable lithium pack
  - 2 x AA batteries
- Charging for Lithium cells via USB connector
- Monitor & control through USB and Wisycom Manager 2.0 (computer SW)
- The MPR51 can be used as a quick, low noise portable spectrum scanner!



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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 ÷ 700 MHz, other on request
<b>Switchable channels</b>	2400 user programmable frequencies, organized in 40 groups of 60 channels.
<b>Switching-window</b>	up 232 MHz.
<b>Frequencies</b>	microprocessor controlled frequency synthesizer circuit, with 25 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 >52dB; 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 (Wisycom Extended-NR) , noise optimized ENC / ENC-1.2 (Wisycom 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>	104 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. 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 3 pin mini-XLR Female connector analogue or digital (SW selectable)
<b>Audioline-out lev.</b>	MAX+18dBu(peakdeviation),adjustableinonedBstepinarangeof54dB
<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:  47 CFR 15 Subpart B  
CAN RSS-Gen/CNR-Gen

NOTE[1]: RMSvalue, 22Hz/22kHz, unweighted.  
The MPR52ENG receiver complies with ETSI specifications: ETS 300 422



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