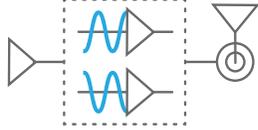


MPR51-ENG is a portable, compact battery-powered receiver designed for professional wireless microphone applications.

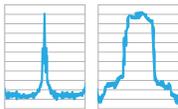
Wideband RF Technology

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!



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

Frequency ranges	470 ÷ 700 MHz, other on request
Switchable channels	2400 user programmable frequencies, organized in 40 groups of 60 channels.
Switching-window	up 232 MHz.
Frequencies	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
Frequency error	< ± 2.5 ppm, in the rated temperature range.
Temperature range	-10 ÷ +50 °C.
Modulation	FM mono, wideband or narrowband IFB (SW selectable)
Max deviation	±54 kHz (wideband), ± 40 kHz (narrowband)
Antenna input imp.	50 ohm sma type (SWR < 1:2; typ. 1:1.4).
Sensitivity	⇒ 2µV(6dBµV), for SND/N >52dB; in the whole switching-window [1].
Amplitude response	< 0.5 dB (for RF input signal:6 dBµV ÷ 100 dBµV).
Adjacent chan. Sel.	> 80 dB typical (for channel spacing ≥ 400 kHz)
Spurious emissions	< 2 nW (typical = 0.1 pW).
Noise Reduction	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
AF bandwidth	30 Hz ÷ 20 kHz (wideband), 30 Hz ÷ 15 kHz (narrowband)
Frequency response	±0.5dB in the 30Hz÷19kHz range (wideband), ±0.5dB in the 30Hz÷13kHz (narrowband)
Distortion	0.3 % typical.
SND/D ratio (Anal.)	104 dB typical [1]
SND/D ratio (AES3)	> 125 dB typical
Powering	- 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)
Battery life	approx. 7 hours with MPRLBP Lithium-ion battery pack CS-KLIC8000 type (single receiver configuration)
Weight	100 g approx. without batteries
Audio Output	
Audio Output	Electronically balanced on 3 pin mini-XLR Female connector analogue or digital (SW selectable)
Audioline-out lev.	MAX+18dBu(peakdeviation),adjustableinonedBstepinarangeof54dB
Digital line-output	AES3 @ 48 kHz
Audio line Impedance	≤ 200 ohm
Headphone-output	Stereo Plug 3.5mm(TRS) Locking (M6 x 0.5 thread) with 2 X 100mW @ 32 Ohm

In compliance withUSA:  47 CFR 15 Subpart B
CAN RSS-Gen/CNR-GenNOTE[1]: RMSvalue, 22Hz/22kHz, unweighted.
The MPR52ENG receiver complies with ETSI specifications: ETS 300 422

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