



The Wisycom MRK980 is a **true diversity**, ultra-wideband dual channel receiver. With its 1090MHz of band switching, it ensures the users an exceptional band flexibility, combined with a superb selectivity and inter-modulation immunity, for best operating performances of wireless microphone systems.

The MRK980 also features an internal DSP processor, Wisycom famous Multicompanding system, new Dante compatibility and a completely and renewed user interface. which makes this system easy and quick to setup.







Wideband RF Technology

Provides the widest switching bandwidth available, up 1090 MHz range to find the best frequency, anywhere in the world.



NB/WB SW selectable

Double audio filter allows switching in "wideband" and "narrowband" mode.







MRK980 supports EMBER+ protocol and manages 4 talk back modes with the RPU 500, allowing remote audio routing to be managed on the mixer.

OTHER FEATURES

- Two channels true diversity receiver (full DSP processing)
- Up to 1090 MHz bandwidth in 170/1260 MHz range
- · Push to talk (PTT) enabled with dedicated outputs
- Analog, AES/EBU & Dante outputs (with redundancy)
- Dante machine Synchronized mode: no sample rate delay!
- Next Gen Multiband front-end filtering, 4 bands:

VHF filter in 170-230 MHz

UHF in 470-800 MHz

Multiple options: 960 ÷ 1160 MHz (DME) or 806 ÷ 810 MHz (JP) or 940 ÷ 960 MHz (USA) or 1240 ÷ 1260 MHz (JP)

• Wideband and Narrowband DSP-FM operation (software selectable):

Narrowband allows 50% more band efficiency (200/250 kHz channel density)

Narrowband allows about 3dB extra sensitivity and noise immunity

- Extreme low noise VCO with ultrafast spectrum scan for optimal quick & easy setup
- Monitor & control through USB and Wisycom Manager software
- Expansion slot for GPIO/Fiber input or future additional features







CONFIGURATIONS

FREQUENCY RANGE

(void) Standard range 170-230 / 470-800 / 960-1160MHz / 940-960 MHz

Japanese range 470-800 / 806-810 / 1240-1260 MHz

POWER SUPPLY OPTION

DC 10÷28 Vdc 6A MAX on XLR-4M

EXPANSION BOARD OPTION

upgradable expansion board

expansion version 1 (GPIO + Monitor + 3 x AES3 + Zoning)

expansion board version 2 (Zoning + Fiber)

ACCESSORIES & RELATED



Item: CAL-EU Power supply cable with Shuko plug 10A 250V 1,8mt



Item: CAL-UK Power supply cable with UK plug 10A 250V 1,8mt



Item: CAL-US Power supply cable with USA plug 10A 250V 1,8mt



Item: CABB03 Antenna Cable: 30cm with BNC-M/ BNC-M connectors 50Ω



Item: CNDT20 RF bulkhead adapter, BNC-F/BNC-F



Item: CABB03-75 Coaxial Cable: 30cm with BNC-M/ BNC-M connectors 75Ω



Item: CAM25-980MON Audio cable MRK980 ext monitor mini XLR-5F - mini XLR-5F - 25CM



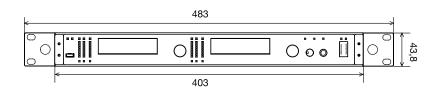
Item: CAM200-980MON Audio cable MRK980 ext monitor mini XLR-5F - XLR-3M - 200CM

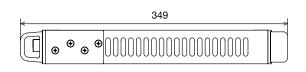


Item: LFA Directive Wide-band Active antenna with integrated filters remote controlled 410-1300 MHz



Item: LNNA2/LBNA2 Directive Wide-band Active antenna 470-960 MHz











WISYCOM MANAGER

Wisycom Manager is a software that allows monitoring, control and management of multiple MKR980s receivers through the Ethernet connection. This software also allows to generate presets to quickly save and recall configurations.

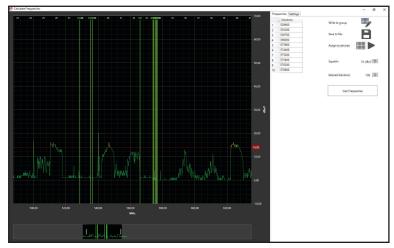


In the Monitor area, you can visualize all the basic unit information such as RF levels, transmitter battery status, frequencies and channel names. You can also organize your devices by creating scenes to virtually recreate your hardware deployment.



The Scan function allows you to transform the MRK980 receiver into a spectrum analyzer to scan and determine the spectrum availability in real time. With this function you can add markers and log data scans with timestamps to assist in troubleshooting interference.





Wisycom Manager offers an integrated Frequency Management and Intermodulation Calculator. It can import saved scans or use your current scan for determining the best frequencies and apply them to all the MRK980 receivers connected for a quick and easy settings of channels.







EXPANSION BOARD



EXP1 is an optional accessory which can be mounted on MRK980 dual channel receiver.

This expansion board enables three different features:

- Zoning signal distribution
- External monitoring cascade
- Two GP OUT

This new board transforms the MRK980 into a customizable and incredibly versatile receiver, with several unique options.





EXP2 is an optional accessory which can be mounted on MRK980 dual channel receiver.

This expansion board enables three different features:

- RF over Fiber receiver modules
- Zoning I/O

This new board transforms the MRK980 into a customizable and incredibly versatile receiver, with several unique options.





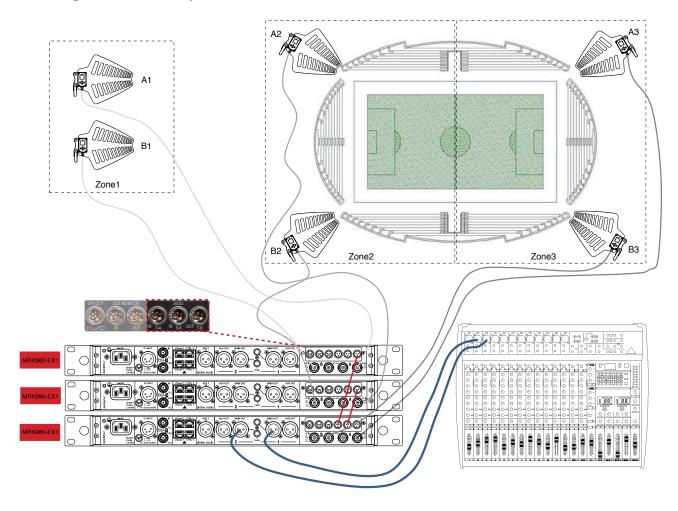




Zoning Signal Distribution

The Zoning (or N Diversity) signal distribution function consists of connecting different MRK980 receiver audio outputs in cascade. These receivers are all tuned to the same frequencies and connected through 3 pin XLR connectors. This type of configuration results in having the audio signal shared between the MRKs, so it's analyzed by the receivers and the one with the best quality signal will be picked to send the audio out. In the example below we have three different zones (3x A / B antennas) connected to three distinct MRK980s. The receivers, in turn, are connected to each other through the expansion board auxiliary audio outputs.

In the "master" receiver Main audio output (Unit 3) we will have the best audio signal resulting from the comparison of the three MRK980s in relation to the areas of use.



GP out ports

GPI ports add 2 general purpose universal outputs completely programmable with both Rx1 and Rx2 of the same device.

This port can be, for instance, used to interface a mixer to extend the existing PTT capability to different directions or audio groups.





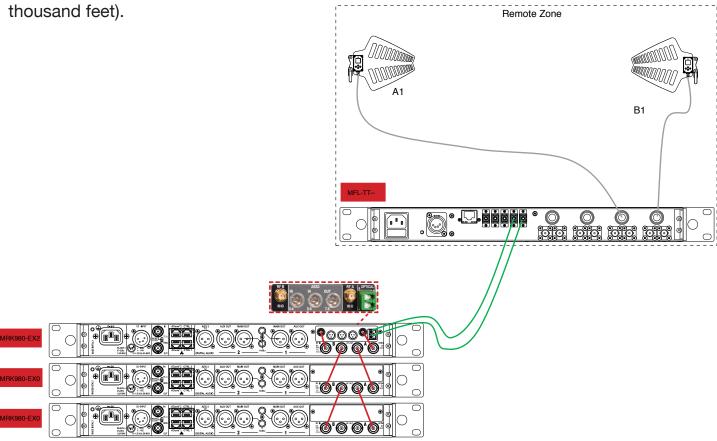
Tel. +39 0424 382605 - e-mail : sales@wisycom.com





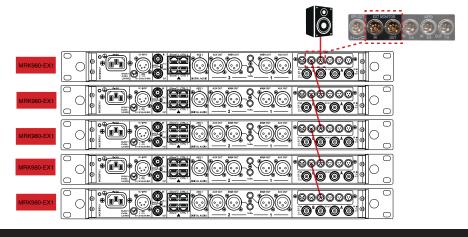
RF Over Fiber Module

This wideband receiving optical module allows the MRK980 to receive RF over fiber signals from a source like Wisycom MFL and open the door to a completely new way of receiving antennas signals from further areas. This implementation massively enlarge the MRK980 reception possibilities by allowing to replace the regular coax cable with optical patches which have an average loss of only 0.4dB per Kilometer (0.12dB per



External Monitoring Cascade

The external audio monitoring function allows several MRK980 to be connected in cascade through the "Monitor I/O", in order to enable an additional auxiliary audio output common to all receivers. Activated by a front panel button, it allows an additional audio monitoring interface to be obtained, in addition to the standard headphones output: this auxiliary slot consists of two mini XLR 5 pins: 1 IN, 1 OUT.









TWO CHANNELS ULTRAWIDE BAND RECEIVER

TECHNICAL SPECIFICATIONS

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Frequency ranges	$170 \div 230 \text{MHz}$ (VHF) and $470 \div 800 \text{MHz}$ and $960 \div 1160$ MHz (DME) or $806 \div 810$ MHz (JP) or $940 \div 960$ MHz (USA) or $1240 \div 1260$ MHz (JP)
Switchable channels	2400 managed in 40 groups ofr 60 frequencies completely user customizable
Switching-window	up to 1090 MHz
Frequencies	microprocessor controlled PLL frequency synthesizer circuit, with 5 KHz minimum step;
Frequency error	$<$ \pm 2.5 ppm, within the rated temperature range
Diversity technique	true-diversity (Twin receiver circuits)
Modulation	FM mono, wideband or narrowband (SW selectable)
Peak deviation	±40 kHz (narrowband), ±56 kHz (wideband), ±80 kHz MAX
"A" / "B" antenna inputs	2 x BNC type female connectors for inputs, 2 x BNC type female connectors for loop
Antenna input impedance	50 ohm (SWR < 1:2)
Antenna booster powering	+12Vcc / 300mA MAX
Sensitivity	Normal Mode: Wideband 2 dBμV / Narrowband -0,3 dBμV High Sensitivity Mode: Wideband 1 dBμV / Narrowband -1,3 dBμV
Amplitude response	$<$ 0.2 dB (for RF input signal: +4 dB μ V \div +120 dB μ V)
Co-channel rejection	$>$ -3.5 dB @ 2 μ V RF; $>$ -1.5 dB @ 100 μ V RF
Adjacent chan. selectivity	$>$ 90 dB @ \pm 300 KHz (wideband), $>$ 90 dB @ \pm 150 KHz (narrowband),
Spurious rec. rejection	> 90 dB
IF image rejection	> 110 dB
IIP3	>= +20 dBm (typical)
Spurious emissions	< 1pW (typical. = 0.1 pW)
Spurious emissions Noise Reduction system	< 1pW (typical. = 0.1 pW) compander circuit, can be pre-set (or switched off) to the following modes: - ENR (Wisycom Extended-NR) noise optimized - ENC (Wisycom Extended-NC) voice optimized & with reduced pre-emphasys - CUSTOM (to be compatible with other brands transmitters)
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4 Kg approx.

Weight