

MRK16 is 4-slot modular multislot enclosure that offers an integrated RF matrix to manage multizone, fiber-optic transport and multiple audio outputs.  
All in a compact 19" 1RU alluminium chassis!



**Multi-BAND  
RF**

Multi-band RF system from 470 to 1260 MHz equipped with **13 band pass filters** automatically selected according to the frequencies of 16 channels



**RF over  
Fiber**

For reception without distance limits!  
The fiber module EXP2 allows to replace the coaxial cable and place the antennas miles away.



**Versatile  
connectivity**

Multiple audio outputs:  
- Digital (AES72&AES59)  
- Dante (primary&secondary)  
- Analog (2xDB25 tascam)



**Dual  
Area Matrix**

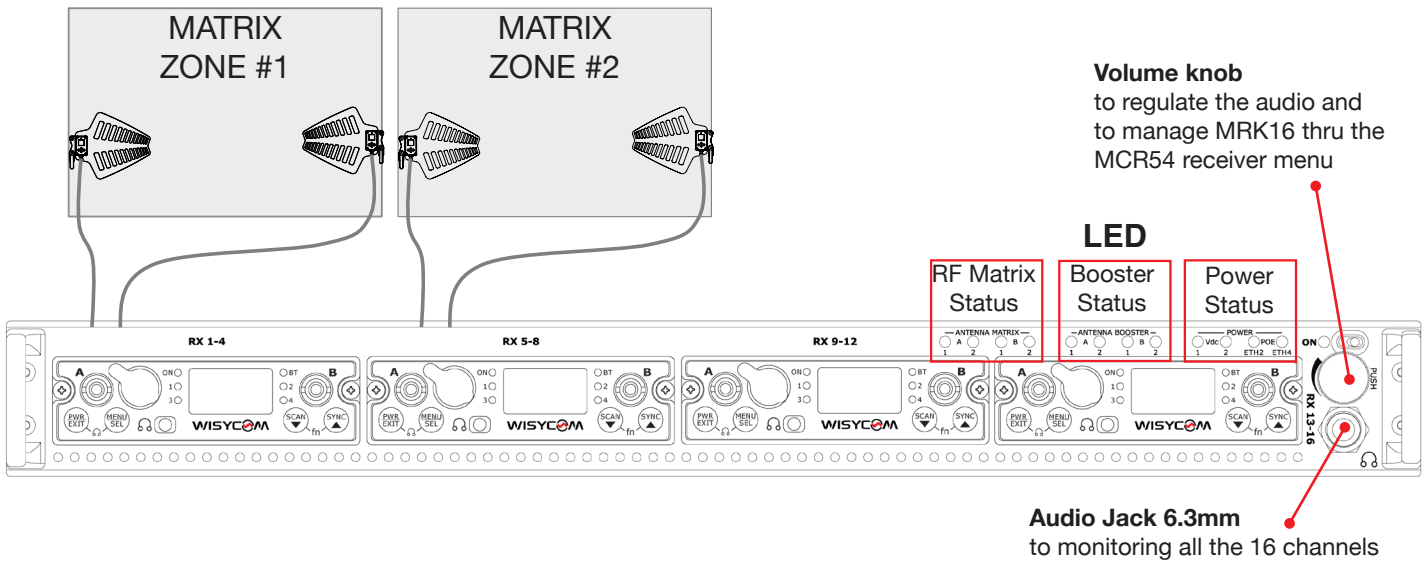
To select and combine 2 independent zones. In each zone it is possible to enable booster power and control remote antenna via coaxial cable.

## OTHER FEATURES

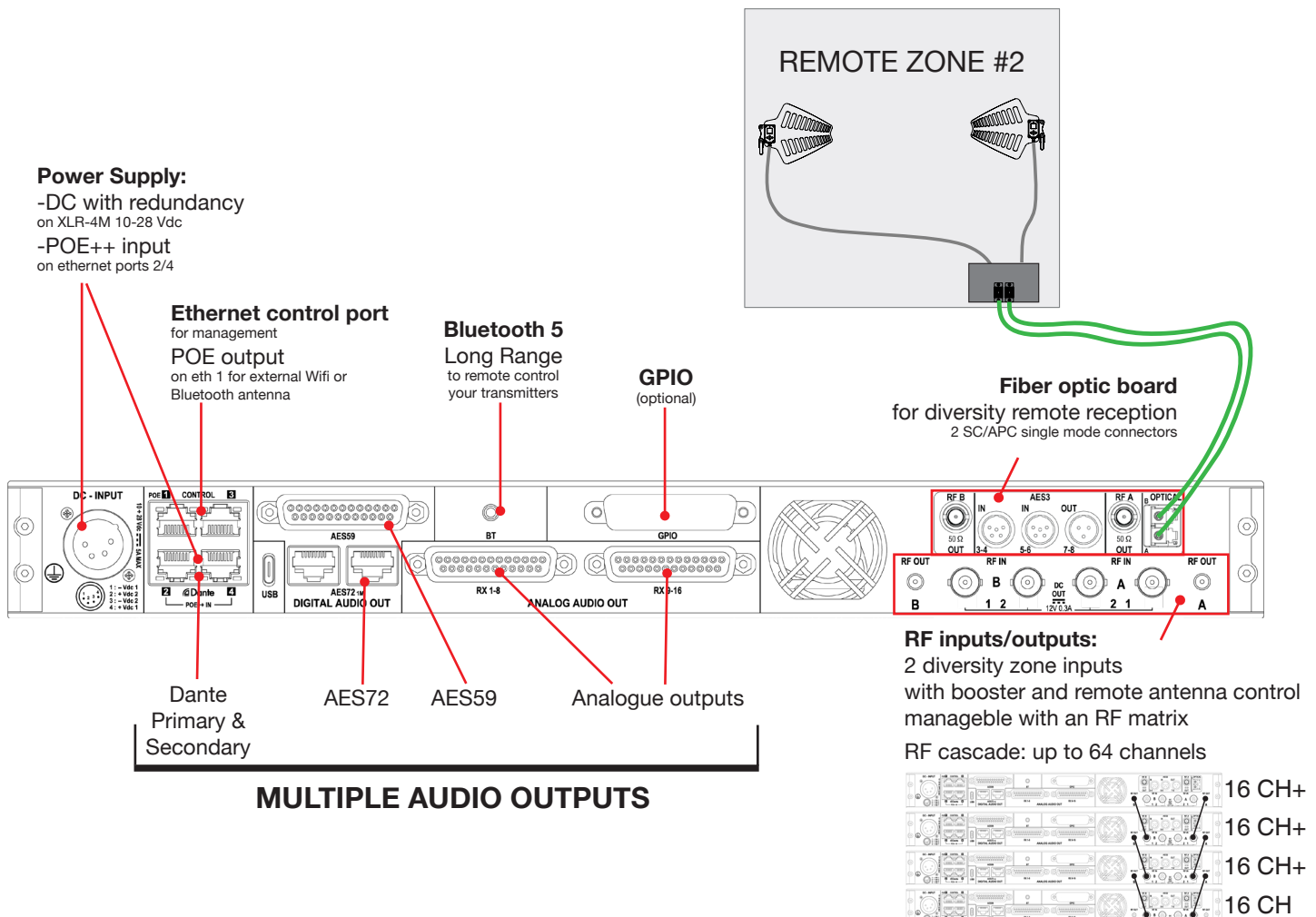
- UP to 16 true diversity channels in a light 19" 1U rack (4x MCR54)
- Fiber optic input (EXP2 expansion board) to connect a remote area with RF over fiber
- Dante output (primary & secondary) and 2 control ethernet ports
- Digital output (AES72 & AES59)
- Analog output (2 x DB25 tascam)
- RF cascade to connect up to 64 channels
- Bluetooth 5.1 Long Range to connect Wisycom transmitter withing a range of hundreds of meters
- USB-C connectivity with powering (1.5A)
- Redundant (dual) power supply on XLR
- Dual power of ethernet input and poe output (PE1 optional)



## FRONT VIEW



## REAR VIEW



## CONFIGURATIONS

### POE OPTION

**PE1**

**Power Over Ethernet board:**

- dual POE++ input on eth 2/4 (redundant pwr supply)
- POE output on eth 1 (external Wifi, Bluetooth antenna)

### EXPANSION BOARD OPTION

**EX2**

expansion board version 2  
(Zoning + Fiber)

### GPIO OPTION

**GP**

GPI ports (DB9 connector)

## ACCESSORIES & RELATED



**Item: AL1265XF**

AC/DC Power Supply with XLR-F  
4-pin connector  
Input: 90 ÷ 264 Vac  
Output: 12V/5.8A  
*supplied by default with the rack*



**Item: CAL-xx**

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



**Item: EXP2**

expansion board version 2  
(Zoning + Fiber)



**Item: CABS10**

Antenna Cable: 10cm with BNC-M/  
SMA-M connectors 50Ω



**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



**Item: CAUSBC1**

USB Cable 1m  
USB B - USB C Male Black  
To monitor/control/power supply



**Item: TSC25**

TASCAM cable  
from DB25 to 8 XLR3M

## TECHNICAL SPECIFICATIONS

|                   |                                     |                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RF SPECIFICATIONS | <b>Frequency ranges</b>             | 470 - 1260 MHz (full range)<br>automatic filtering based on the frequencies set on MCR54s on the following range of filters:<br>High Pass: 470/ 510/ 822/ 940 MHz,<br>LowPass: 608/ 694/ 832/1260 MHz                                                                                                                                                                             |
|                   | <b>Antenna connector</b>            | 2 x BNC type female connectors for inputs, 2 x BNC type female connectors for loop, 2 x SMA type female connectors to link 2nd zone (i.e. EXP2 fiber expansion board)                                                                                                                                                                                                             |
|                   | <b>Antenna input impedance</b>      | 50 Ohm                                                                                                                                                                                                                                                                                                                                                                            |
|                   | <b>Spurious emissions</b>           | < 2 nW                                                                                                                                                                                                                                                                                                                                                                            |
|                   | <b>Input/output gain</b>            | 1dB ± 1                                                                                                                                                                                                                                                                                                                                                                           |
|                   | <b>Input/cascada gain</b>           | 1dB ± 1                                                                                                                                                                                                                                                                                                                                                                           |
| AUDIO             | <b>IP3</b>                          | 14 dBm                                                                                                                                                                                                                                                                                                                                                                            |
|                   | <b>Antenna booster powering</b>     | +12 Vcc / 300 mA MAX                                                                                                                                                                                                                                                                                                                                                              |
|                   | <b>Analogue audio output</b>        | 2 x DB25 connectors (TASCAM)                                                                                                                                                                                                                                                                                                                                                      |
|                   | <b>Digital audio output</b>         | AES59 (DB25 connector) and AES72 1M (2 RJ45 connectors)                                                                                                                                                                                                                                                                                                                           |
|                   | <b>Dante output</b>                 | Dante Primary and Secondary (2 x 1000 Base TX RJ45 Ethernet)                                                                                                                                                                                                                                                                                                                      |
| OTHERS            | <b>Monitor output</b>               | headphone 6.3 mm jack socket, volume adjustable with a front knob                                                                                                                                                                                                                                                                                                                 |
|                   | <b>LED</b>                          | 4 LEDs indication for the zone activation status (red or green)<br>4 LEDs indication for the booster status (red or green)<br>4 LEDs indication for the power supply status (red or green)<br>1 LED indication for the MRK16 status (green when it is power on)                                                                                                                   |
|                   | <b>Max number of receiver slots</b> | 4                                                                                                                                                                                                                                                                                                                                                                                 |
|                   | <b>Max number of channels</b>       | 16 (with MCR54), 8 (with MCR54-DUAL)                                                                                                                                                                                                                                                                                                                                              |
|                   | <b>Managing interface</b>           | 2 x 1000 Base TX RJ45 Ethernet, Bluetooth 5 Long Range, USBC and thru display menu of the 1st receiver on the right                                                                                                                                                                                                                                                               |
|                   | <b>Powering</b>                     | 10÷ 28 Vdc, 5A max, redundant DC Vdc1 and Vdc2 on XLR M-4pin<br> <div> 1: -Vdc1<br/> 2: +Vdc2<br/> 3: -Vdc2<br/> 4: +Vdc1 </div><br>PE1 option: Power Over Ethernet board:<br>- dual POE++ input on eth 2/4 (redundant pwr supply)<br>- POE output on eth 1 (external Wifi, Bluetooth antenna) |
|                   | <b>Power consumption</b>            | 60W with 4 MCR54s and 4 active boosters                                                                                                                                                                                                                                                                                                                                           |
|                   | <b>Power supply output</b>          | on USB-C port to connect external device (ex. tablet) 1.5 A max                                                                                                                                                                                                                                                                                                                   |
|                   | <b>Temperature range</b>            | -10 ÷ +55 °C                                                                                                                                                                                                                                                                                                                                                                      |
|                   | <b>Dimensions</b>                   | 44 x 483 x 352 mm (HxWxD)                                                                                                                                                                                                                                                                                                                                                         |
|                   | <b>Weight</b>                       | 4.3 Kg. with 4 MCR54s and EXP2 board, 3.30 Kg. without MCR54s                                                                                                                                                                                                                                                                                                                     |