

BFLx1 is a single RF over Fiber module with selectable filters and high power Bluetooth long range.



RF over Fiber

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



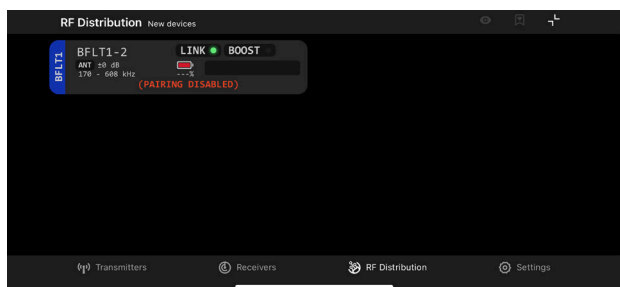
Filter Bank

20 band pass filters and tunable filter 1MHz step software selectable to increase RF robustness.



Bluetooth 5 Long Range

Monitor & control through Bluetooth to adjust parameters in real time (Wisycom BT App)



OTHER FEATURES

- Wide RF band: 170-1260 MHz
- Antenna booster 12V, 150mA max
- 4mW (6dBm) optical TX power (for BFLT1)
- Operating voltage range: 6 ÷ 20 Vdc
- remote power supply from the RF connector (BFLR1)
- 2 RGB LEDs for RF overload and system status indication
- Easy configuration thru a High contrast OLED white display and 4 key navigation buttons



CONFIGURATIONS

RF CONNECTOR

B
BNC female
N
**N female
(on request)**

FILTER OPTION (only for BFLT1)

F1

Tunable filter: 470-758 MHz, 40MHz of BW
Selectable filter HP: 170/470/518/566/960MHz + LP: 608/698/1160/1260MHz
Fixed filter: 820 ÷ 832 MHz (EU), 733 ÷ 758 MHz (EU), 940 ÷ 960 MHz (USA)

F2

Tunable filter: 470-758 MHz, 40MHz of BW
Selectable filter HP: 170/470/518/566/614MHz + LP: 608/698/714/1260MHz
Fixed filter: 806 ÷ 810 MHz (JP), 927 ÷ 935 MHz (KR), 1240 ÷ 1260 MHz (JP)

OPTICAL CONNECTOR

SC
SC/APC connector
ST
ST/APC connector
LC
LC/APC connector (on request)

ACCESSORIES & RELATED



Item: CDC34

External power feeding cable
CDC34: Hirose 4pin Male/raw wires (50 cm)
CDC34HM: Hirose 4pin Male/ Hirose 4pin Male (50 cm)



Item: PSP910-H

AC/DC Power Supply with Hirose 4 pin connector
PSP910-H: Europa plug type
PSP910-H-US: USA plug type
PSP910-H-UK: UK plug type



Item: MRK980 with EXP2/EXP3

true diversity, ultra-wideband dual channel receiver
170-1260 MHz

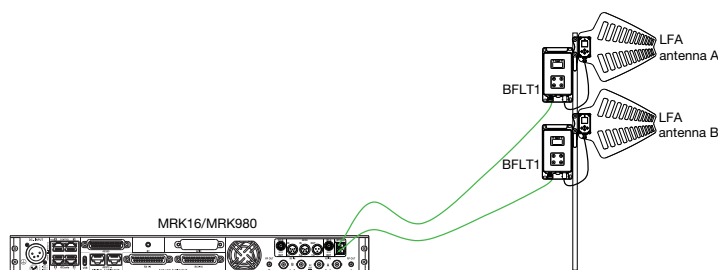


Item: MRK16 with EXP3

19" 1U rack with 4 slots for MCR54
16 true div. wireless (4 x MCR54) Analog & digital output (Dante/AES3)
Ethernet & bluetooth controls
RF over fiber input (optional)

CONFIGURATION EXAMPLE

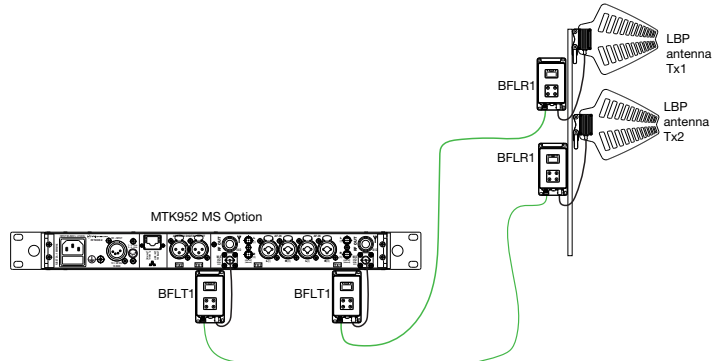
RECEPTION FIBER LINK (ANT mode)



Using 2 BFLT1 modules it is possible to receive the RF signal over fiber coming from 2 diversity antennas installed in a remote area.

NOTE: MRK16/MRK980 has to be equipped with fiber expansion board

TRANSMISSION FIBER LINK (IFB mode)



Connecting MTK952 Master/Slave outputs to 2 BFLR1 linked over fiber to 2 BFLR1 modules it is possible to transmit 2 IEM signals to a remote area.

TECHNICAL SPECIFICATIONS

RF SPECIFICATIONS	Frequency ranges	170÷1260 MHz			
	RF Connector	BNC-F or N-F (on request)			
	Antenna booster (BFLT1)	+12Vdc, 150 mA max			
	DC power for external amplifier (BFLR1)	+12Vdc, 200 mA max (for PAW, LBP/LNP)			
	Tunable Filter	470 ÷ 758 MHz (UHF), 40MHz of BW			
	Fixed Filter	F1 version: 820-832MHz, 733-758MHz, 940-960 MHz (for Europe, USA and UK) F2: version: 806-810MHz, 927-935MHz, 1240-1260MHz (for Japan and Korea)			
	Selectable band pass filter	17 RF filters selectable:			
		F1 version		F2 version	
		HP	LP	HP	LP
		170 MHz	608/698/1160/1260 MHz	170 MHz	608/698/714/1260 MHz
470 MHz		608/698/1160/1260 MHz	470 MHz	608/698/714/1260 MHz	
518 MHz		608/698/1160/1260 MHz	518 MHz	608/698/714/1260 MHz	
566 MHz		698/1160/1260 MHz	566 MHz	698/714/1260 MHz	
960 MHz	1160/1260 MHz	614 MHz	698/714/1260 MHz		
RF to fiber link working modes	ANT (for reception link), IFB (for tranmission link)				
Optical Connector	SC/APC or ST/APC or LC/APC (on request)				
Optical power (BFLT1)	6 dBm [4mW]				
Wavelength (BFLT1)	1550 nm				
Input optical power range (BFLR1)	-6 dBm to 6 dBm [0.25mW to 4mW]				
Wavelength (BFLR1)	1300 to 1650 nm				
Managing interface	Display menu and 4 buttons, Bluetooth 5 (Wisycom BT App)				
LEDs	2 multicolour RGB LEDs to easy indicates BFLx1 status LED1 status: red: RF overload blue: booster enabled green: RF LED2 status: red: alarms blue: Bluetooth enable green: no alarm, no Bluetooth				
Power supply	9 ÷ 18 Vdc				
Power Connector	Hirose 4pin (pin1: GND, pin4: Vdc)				
Power consumption	BFLT1: 2 W (DC antenna booster OFF) - 3,5 W (DC antenna booster ON) BFLR1: 1,2 W (DC transmission amplifier OFF) - 3,5 W (DC transmission amplifier ON)				
Display	High contrast OLED white display (128 x 64 pixels)				
Mounting	4 holes (M4 screw type)				
Temperature range	-10 ÷ +55 °C				
Dimensions	70,2 mm(L) x 127,1 mm(H) x 26,1 mm(D)				

