

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.



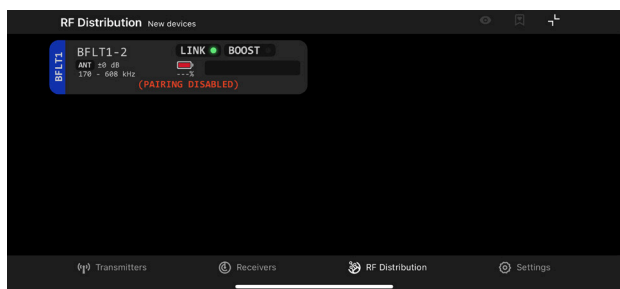
Filter Bank

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



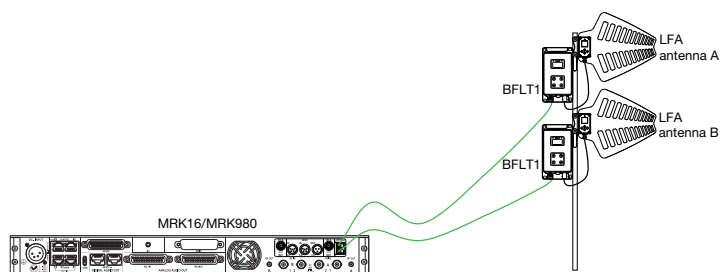
Item: MRK980 with EXP2/EXP3
true diversity, ultra-wideband dual channel receiver
170-1260 MHz



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

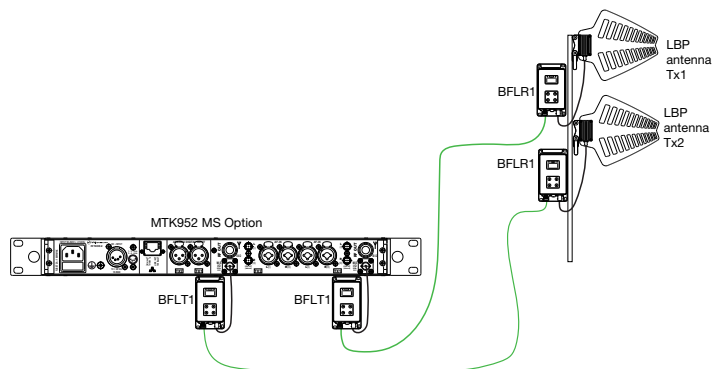
RECEPTION FIBER LINK (ANT mode)



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 BFLT1 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																												
OPTICAL	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: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">F1 version</th> <th colspan="2">F2 version</th> </tr> <tr> <th>HP</th> <th>LP</th> <th>HP</th> <th>LP</th> </tr> </thead> <tbody> <tr> <td>170 MHz</td> <td>608/698/1160/1260 MHz</td> <td>170 MHz</td> <td>608/698/714/1260 MHz</td> </tr> <tr> <td>470 MHz</td> <td>608/698/1160/1260 MHz</td> <td>470 MHz</td> <td>608/698/714/1260 MHz</td> </tr> <tr> <td>518 MHz</td> <td>608/698/1160/1260 MHz</td> <td>518 MHz</td> <td>608/698/714/1260 MHz</td> </tr> <tr> <td>566 MHz</td> <td>698/1160/1260 MHz</td> <td>566 MHz</td> <td>698/714/1260 MHz</td> </tr> <tr> <td>960 MHz</td> <td>1160/1260 MHz</td> <td>614 MHz</td> <td>698/714/1260 MHz</td> </tr> </tbody> </table>	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
	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 transmission 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)																													
OTHERS	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)																												