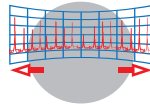




Wideband RF Technology

Extreme wideband system from 170 to 1260 MHz



Integrated RF Scanner

Built-in spectrum analyzer to check inputs before they are switched into the combined signals or to monitoring combined signal



Antenna Control

Remote control of gain and filter thru coaxial cable of Wisycom smart antennas LFA, ADFA and BFA (coaxial modules)



Diversity Zones

Programmable combiner up to 8 zones in diversity configuration. Configurable by software in 8 zones into 4 outputs or dual 4 zones into 2 outputs



RF over Fiber

The optical module slot allows to replace the coaxial cable with fiber and place the antennas miles away



Touchscreen Control

Easy configuration via the large colour touchscreen display

OTHER FEATURES

- Redundant power supply, AC and DC powered
- Programmable gain control on each inputs
- Antenna booster supply toggled on each coaxial input independently
- Voltage and current monitoring on each booster supply with alarm
- Monitoring of optical level on each optical input module with alarm
- Remote management and monitor of alarms thru Ethernet 10/100 base TX

CONFIGURATION

MATF {8 input modules} {

- 'C' for coaxial module
- 'F' for optical* module, *compatible with BFLT2 M0, BFLT1, MFL no Mux*
- 'M' for optical* module with M2 multiplexer, *compatible with BFLT2 M2*

*max 6 optical modules

Standard configurations:

MATFCCFFCCFF

4 coaxial input modules (slots items: 1,2,5,6)
4 optical input modules without multiplexer (slots items: 3,4,7,8)

MATFCCFFFFFFF

2 coaxial input modules (slots items: 1, 2)
6 optical input modules without multiplexer (slots items: 3,4,5,6,7,8)

MATFCCMMCCMM

4 coaxial input modules (slots items: 1,2,5,6)
4 optical input modules with M2 multiplexer (slots items: 3,4,7,8)

MATFCCMMMMMM

2 coaxial input modules (slots items: 1, 2)
6 optical input modules with M2 multiplexer (slots items: 3,4,5,6,7,8)

ACCESSORIES & RELATED



Item: LFA
Directive Wideband Active antenna
with integrated filters
remote controlled
410-1300 MHz
compatible with MATF 'C' module



Item: BFA
Wide-band booster
with integrated filters
remote controlled
430-1260 MHz
compatible with MATF 'C' module



Item: ADFA
Omnidirectional Wideband Active
antenna with integrated filters
remote controlled
430-1260 MHz
compatible with MATF 'C' module



Item: LBN2-LNN2
Directive Wideband antenna
420-1300 MHz
compatible with MATF 'C' module



Item: ADB3/ADN3
Omnidirectional Wideband antenna
430-1260 MHz
compatible with MATF 'C' module



Item: PSP15019-XF
AC/DC Power Supply, Input: 90÷264Vac
Output: 19V 7.9A, 150W
AC Input Connector: IEC 320-C14 (Ac-
cepts IEC 320-C13)
Output Connector: 4 XLR Female



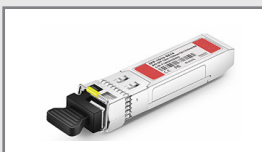
Item: BFLT1
Single Laser RF over Fiber transmit-
ter with selectable filter, Bluetooth
control interface
compatible with MATF 'F' module



Item: BFLT2_Fx-M0-D1
Dual RF over Fiber transmitter, select-
able filter, antenna control (LFA type),
SFP socket and remote control interface
compatible with MATF 'F' module



Item: BFLT2_Fx-M2-D1
Dual RF over Fiber transmitter with
multiplexer, selectable filter, antenna
control (LFA type), SFP socket and
remote control interface
compatible with MATF 'M' module



Item: SFP-MOD2
SFP module for installation into exter-
nal switch
TX 1550nm, RX 1310nm
*for Data connection with
BFLT2-Fx-M2-D1*

TECHNICAL SPECIFICATIONS

RF SPECS.	Frequency ranges	170 - 1260 MHz
	Input gain	From -25 to +3dB, 0.5dB steps; independent regulation for each input module, A and B separately
	OIP3	30 dBm typ. for coaxial module (with 0dB gain) 15 dBm typ. for optical module (with BFLT2)
	Amplifier linearity	± 1 dB typ. for coaxial module
OUT	Noise figure	6 dB typ. for coaxial module (with 0dB gain) 16 dB typ. for optical module (with 0dB gain and 1mW optical level and BFLT2)
	Output Connectors	4 diversity BNC-F (4A & 4B) 50 Ω
	Connector	2 x BNC-F (A & B), 50 Ω
	max RF input level	-10 dBm (97 dBuV), overload alarm
COAXIAL IN	Antenna booster powering	+12Vcc / 220mA +12Vcc / 400mA for max 2 coaxial modules (software configurable)
	Optical Connector	2 x LC/APC for optical module without MUX, 'F' version 1 x SC/APC for optical module with MUX (1510nm & 1550nm), 'M' version Note: All fiber links require single-mode fiber . The maximum supported number of optical modules is 6.
	Optical input level	From -6 dBm to 6 dBm [0.25 mW to 4 mW]
	Absolute max optical power	10 mW DO NOT EXCEED MAX INPUT OPTICAL POWER!
OPTICAL IN	Wavelength	From 1300 to 1650 nm for 'F' module; 1510nm & 1550nm for 'M' module
	Frequency range	170 - 260 and 460 - 1260 MHz
	Input channels	software selectable between one of the 8 input modules or output combined signals
	Resolution bandwidth	50 kHz
SCANNER	Frequency resolution	50 kHz
	Input attenuator	0-10-20 dB
	Timebase accuracy (0-50°C)	±2.5 ppm max
	Display Average Noise Level	-5 dBμV typ. Note: 100μs acq. time
	Displayed amplitude range	-10 to 90 dBμV
	Max input level	80 dBμV Note: 0dB input atten.
	Amplitude accuracy	±1.5 dB typ. on (10-80dBμV) Note: 0dB input atten.
	Phase noise @1GHz	-110 dBc/Hz typ. (offset 50kHz)
	Input IIP3	15 dBm typ. Note: 0dB input atten.
	Sweep Speed	70 MHz/s with two inputs active. Note: 30μs acq. time
	Sample time	30/100/300/1k μs
	Full span sweep time	Only 13 seconds for a full span sweep (A and B)
	USB port	USB type C, for scanner file storage
	Managing interface	Touch display menu, 2 buttons and encoder, Remote Control thru Ethernet 10/100 BaseT interface with Wisycom Manager
	Power supply	AC 85-264 Vac, 47-63 Hz, FUSE T3,15A 150W max DC 10-28 VDC, 150W max
OTHERS	Power consumption	80W typ. (2 coaxial modules High Boost and 6 optical modules)
	Display	1424x280 px. colors display 16.7M, 80+80 degree viewing angle
	Temperature range	-10 ÷ +50 °C
	Dimensions	483 mm(L) x 43.8 mm(H) x 349 mm(D)
	Weight	4.5 Kg approx.