



**METRO NODE SERIES**  
**FIBER DEEP**  
**BON-MFD4040**



**TECHNICAL SPECIFICATIONS**

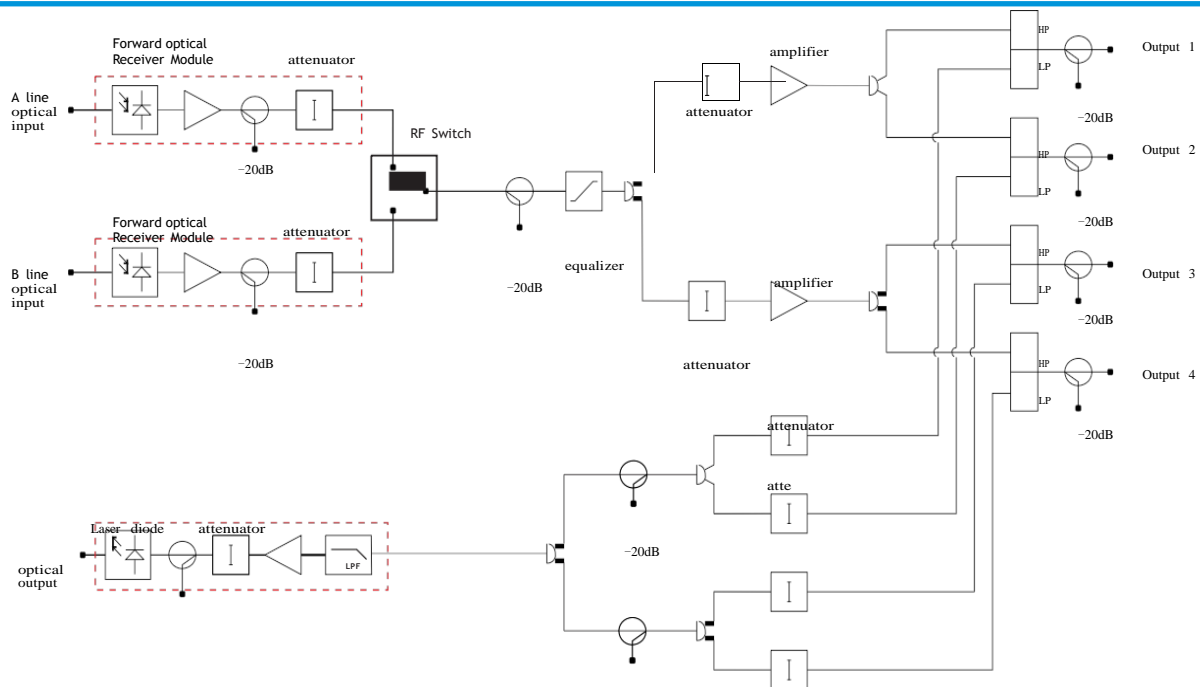
## The Fiber Deep 1 GHz Node with 42/54 MHz Split

The 1 GHz 4 output node is specifically designed to serve in Fiber Deep network applications. With its robust modular design of Optics and high output RF amplifier electronics, the BON-MFD can provide a full complement of functions required by advanced HFC networks. With up to 58dBmV RF output the BON-MFD-4040 is the ideal node for all your **Fiber Deep Applications**.

### FEATURES:

- \* Using GaAs power amplifier module with the latest technology with superior linearity
- \* Uniform design (amplifier and power supply in a detachable module), four 118dB  $\mu$  V output ports, equivalent to 58dBmV RF output
- \* 1 GHz RF platform
- \* Module designing, with double optical receiving module and one reversing optical transmitter module
- \* With optical power test port, LED indicates input optical power and over alarm
- \* Surge - Resistant circuitry ensures resistance to high voltage transients (6KV)
- \* Die Cast Aluminum water proof Housing

### BLOCK DIAGRAM



## SPECIFICATIONS:

Parameter	Unit	Specifications
Receiving Optical Power Range	dBm	-8~+2 (Recommended Value : -3~+1)
Receiving Optical Wave Length	nm	1100~1600
Optical Return Loss	dB	≥45
Fiber Connector Version		SC/APC (or specified by user)
Forward Bandwidth	MHz	54~1000 (or specified by user)
Reverse Bandwidth	MHz	5~42 (or specified by user)
Nominal Output Level	dB μV	104 (-2dBm)
Maximal Output Level	dB μV	≥118
Flatness In Band	dB	±0.75
RF Return Loss	dB	≥16
C/CSO	dB	≥65
C/CTB	dB	≥68
Cross Modulation	dB	≥58
Output Optical Wave Length	nm	1310, 1550 (or specified by user)
Laser Type		DFB
Input Level	dB μV	75~85
Output Optical Power	mW	1 ~ 4
Fiber Connector Version		FC/APC ( or specified by user)
Flatness In Band	dB	±0.75
NPR		≥10 (NPR≥30dB)
Power Loss	W	≤52
Supply Voltage	V	AC30~90 OR AC60~135
Dimension	mm	285×205×150