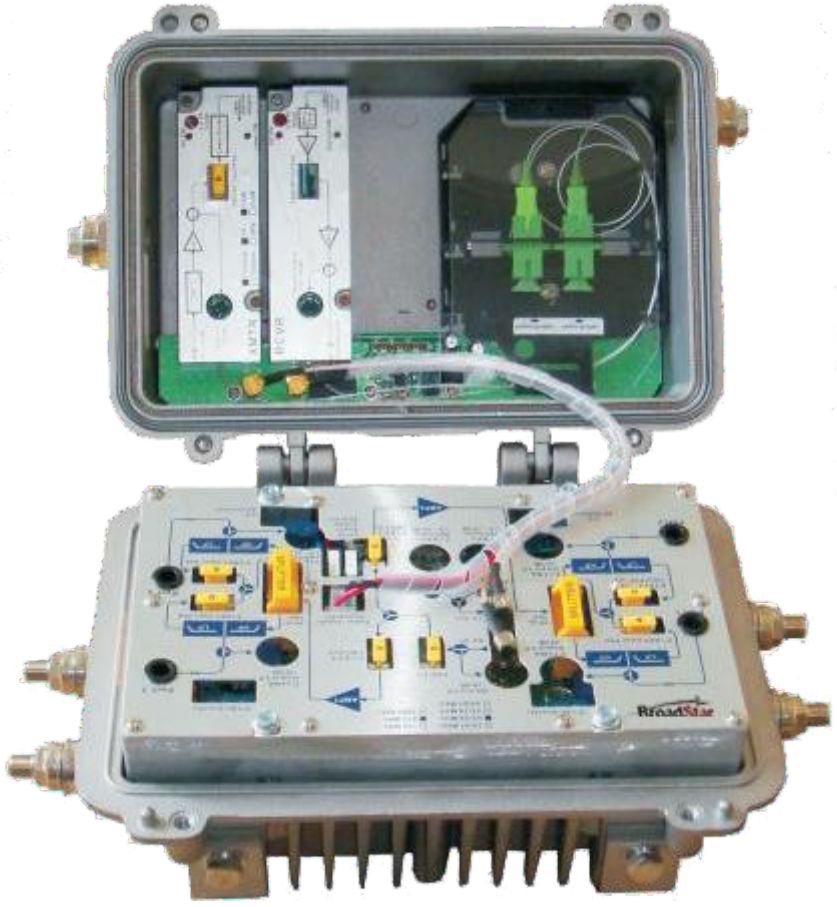
BroadStar

METRO NODE SERIES FIBER DEEP

BON-MFD4040



TECHNICAL SPECIFICATIONS

domus network

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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 μ V output ports, equivalent to 58dBmV RF output

* 1 GHz RF platform

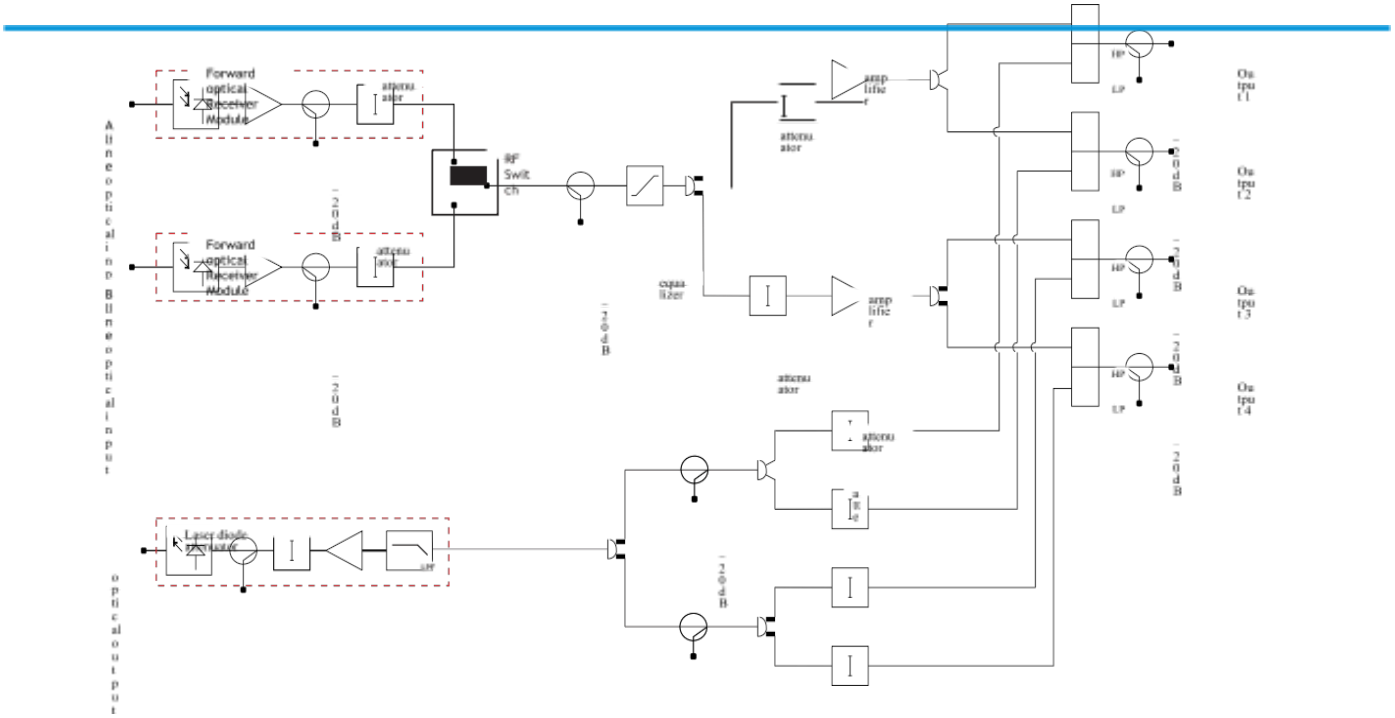
* Module designing, with double optical receiving module and one reversing optical transmitter module

* 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



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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	dBμV	104(-2dBm)
	Maximal Output Level	dBμV	≥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
	Intput Level	dBμV	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