

# Product Specifications

COMMScope®



## Broadband Solutions

760141663 | BOS-MN-1302

1302 MicroNode, 1550 nm receiver, 1310 nm transmitter, 42/54 MHz split, with power inserter

\$1,129,180  $\pm$

NOTES

## Optical Specifications Rx

Distortion Performance (CNR), minimum	48 dB
Distortion Performance (CSO), maximum	60 -dBc (relative to carrier)
Distortion Performance (CTB), maximum	65 -dBc (relative to carrier)
Distortion Performance Note (CNR)	50-552 MHz CW Analog; 552-1002 MHz digital, -4 dBm receive
Distortion Performance Note (CSO)	50-552 MHz CW Analog; 552-1002 MHz digital, 0 dBm receive
Distortion Performance Note (CTB)	50-552 MHz CW Analog; 552-1002 MHz digital, 0 dBm receive
Input Power, maximum	0 dBm
Input Power, minimum	-6 dBm
LED Indicator, green	Optical input power
Technology Type	RF over glass (RfOG)
Wavelength, maximum	1565.00 nm
Wavelength, minimum	1540.00 nm

## Rf Specifications Rx

Operating Frequency Band	54-1002 MHz
Flatness	$\pm 2.0$ dB
Output Level, typical	17 dBmV @ 550 MHz 77 dB $\mu$ V @ 550 MHz
Return Loss, minimum	16 dB
Tilt Across Frequency Band, typical	5.00 dB

## Optical Specifications Tx

Laser Type	Fabry-Perot Class 1
Technology Type	RF over glass (RfOG)
Wavelength, nominal	1310.00 nm
Dynamic Range at NPR, minimum	15 dB @ 30 dB
Laser Activation Time	1.5 $\mu$ s
LED Indicator, green	Upstream RF activity
Output Power, typical	3 dBm

## Rf Specifications Tx

Flatness	$\pm 1.0$ dB
Input Activation Level, typical	14.000 dBmV   74.000 dB $\mu$ V
Input Power Range, typical	20-45 dBmV   80-105 dB $\mu$ V
Operating Frequency Band	5-42 MHz

# Product Specifications

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## Broadband Solutions

1360411 | BP-NID-2000

Network Interface Device (NID) Enclosure for MicroNode

\$ 275,629.90 +/-

## Electrical Specifications

Electrical Safety Standard UL 746C

## Environmental Specifications

Operating Temperature -40 °C to +65 °C (-40 °F to +149 °F)  
Qualification Standards Telcordia GR-487-CORE

## Mechanical Specifications

Cable Seal Grommets for flat drop and round cable up to 0.32 in OD  
Environmental Seal Door Gasket

## General Specifications

Application Indoor | Outdoor  
Warranty One year

## Dimensions

Depth 66.04 mm | 2.60 in  
Height 198.12 mm | 7.80 in  
Net Weight 0.64 kg | 1.40 lb  
Width 246.38 mm | 9.70 in

## Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

# Product Specifications

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Broadband solutions

40012504 | BOS PS-12V0400-1

120 Vac/60 Hz input, 12 Vdc/400 mA output with F female connector.

\$197,118.80

## Electrical Specifications

Power Frequency	60 Hz
Electrical Safety Standard	UL 1310
Input Current, maximum	135.0 mA
Input Voltage	120 Vac
Output Current, nominal	400.0 mA
Output Voltage, nominal	12 Vdc

## Mechanical Specifications

Output Connector Interface F Female

## General Specifications

Application	Indoor
Brand	BOS™
Package Quantity	1
Warranty	One year

## Dimensions

Height	42.20 mm   1.66 in
Length	76.00 mm   2.99 in
Width	51.30 mm   2.02 in

## Packed Dimensions

Shipping Weight	0.21 kg   0.46 lb
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## Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



# BRIGHTPATH<sup>®</sup>

## Aurora<sup>®</sup> Optical Node Specifications

### Physical

Dimensions	20"L x 10"D x 11.7"H (51cm x 25.5cm x 30cm)
Weight	38 lbs (17.1 kg)

### Environmental

Operating Temperature Range	-40° to +65°C (-40° to 149°F)
Storage Temperature Range	-40° to +85°C (-40° to 185°F)
Humidity	5% to 95% non-condensing

### Power Requirements

Operating Input Voltage Range	44 to 95 VRMS
Power Consumption	45 W (typ configuration)
Power Passing	15 ARMS
Power Supply Start-up Input Voltage	40-44 VRMS
Power Supply Turn Off Input Voltage	34-38 VRMS
Power Supply Efficiency	73% typical

### Optical (typical configuration)

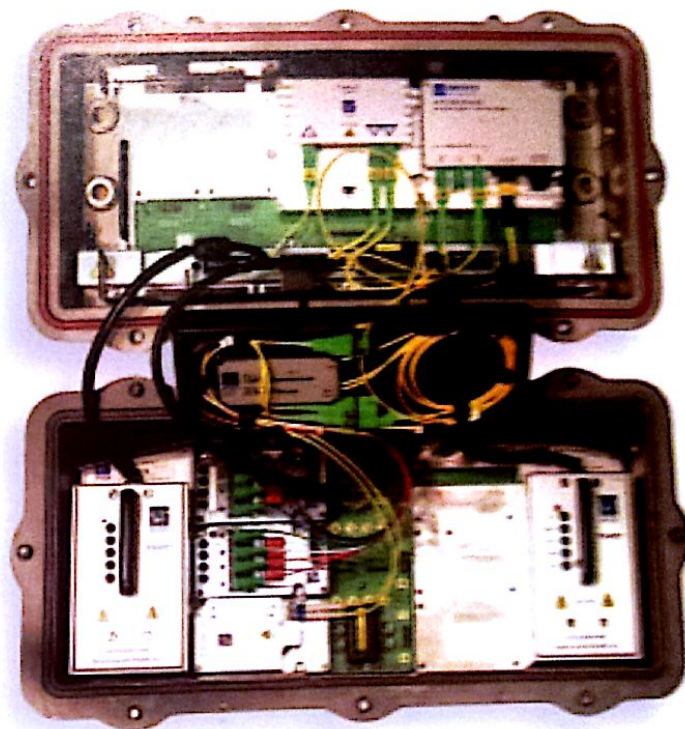
#### Forward Typical Values (1550nm)

Input	+5 to +15 dBm
Output	14 dBm at each of 8 outputs
Noise Figure at 5 dBm Input	< 6 dB

#### Reverse Typical Values (1310nm)

Input	-15 dBm nominal
Output	0 dBm using TR4040-PI SFP

The optical ports facility of the DT4230N or DT4030N can be populated with a variety of SFP (plug-in) transceivers depending on the network application. Please refer to the appropriate data sheets for the selected transceivers for detailed specifications.



### Typical BrightPath Application Node Configuration

1 NH4000-H Housing
1 PS4001 Power Supply
2 AR4041 5-45 MHz Optical (Quad) Receiver modules
1 FA4524 High-output 1550nm Optical Amplifier
1 DT4230N Digital Transceiver
1 OP4138 Broadcast Splitter - 1310/1550 Diplexer
1 OP91M2S Single 1310/1550nm Combiner Separator
1 PC4002 Power Chassis
1 FT4004V Fiber Tray
1 TR4040-PI 2.125 Gbps 1310nm Optical Transceiver SFP

A backup PS4001 Power Supply may be ordered separately. Also available are additional plug-in modules, including optical redundancy switches, which are described on separate data sheets. Please contact your Aurora Networks sales representative for information regarding specific equipment configuration options to meet your particular requirements.