

## EDX Series Optical Mini Node

### 35dBmV

#### Description

The EDX series Mini nodes are designed to offer optical node application flexibility in an extremely compact housing. They are also ideal for advanced fiber-to-the-building and FTTH applications for CATV and telephony networks. The EDX series nodes provide a high RF output level up to 1GHz (1003MHz) which will reduce or eliminate the need for post-node amplifiers in the network. These mini-nodes have the unique combination of high output (35dBmV) and 1GHz operation.

#### Applications

The EDX series Mini nodes are ideal for use in high-density applications: MDUs, and commercial complexes such as universities, hospitals, and business parks. The mini node boasts a 35 dBmV output to handle any size establishment. Return transmitters can be ordered as either 1310nm or 1550nm depending on the system requirements.

#### The Electroline Advantage

A long-standing solution provider of high-quality products for specialized broadband applications, Electroline is pleased to offer the EDX series Mini node, which is the ideal node for wherever space is limited but performance requirements are high. EDX eliminates the need for expensive installation of larger nodes, while providing comparable performance in a compact ISO-9001 manufactured package.



#### Features

- 1003MHz high output with GaAs technology
- High RF output — 35dBmV
- Compact housing size
- 6-KV surge protection for RF I/O port
- I/O optical level test points (1V/mW )
- -20 dB directional coupler test points for forward and reverse
- LED indicators for power, optical input and optical output
- Die-cast aluminum housing
- Low power consumption
- Flexible powering at local or remote sites.

# EDX Series Optical Mini Node – 35dBmV

## Receiver Specifications

Optical Specifications	
Input Wavelength	1200 to 1600 nm
Optical Input Power	-6 to +1 dBm
Optical Power Test Point	1 V/mW
Optical Indicator On	> -7 dBm
RF Specifications	
Frequency Bandwidth	54 to 1003
Impedance	75 Ohms
Flatness	+/- 0.75 dB
Output Return Loss	> 16 dB
Operating RF Output Level	35/35 dBmV @ -1dBm Optical Power 77 NTSC channels loading (2 dB down when optical power input reduces by 1dB)
Distortion, OMI = 3.5 % CTB CSO	≥64 dBc @ -1dBm Optical Power Input ≥64 dBc @ -1dBm Optical Power Input
Carrier to noise ratio CNR	>51 dB @ -1 dBm Optical Power Input

## Transmitter Specifications

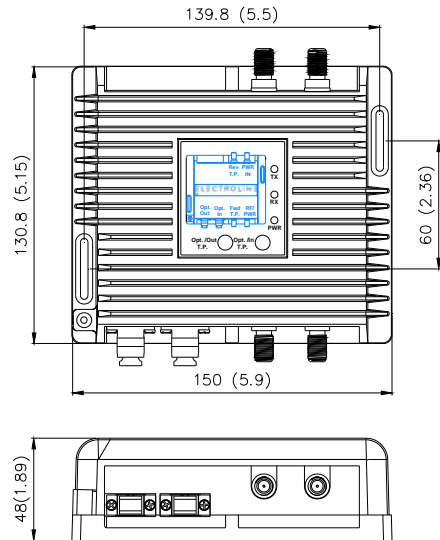
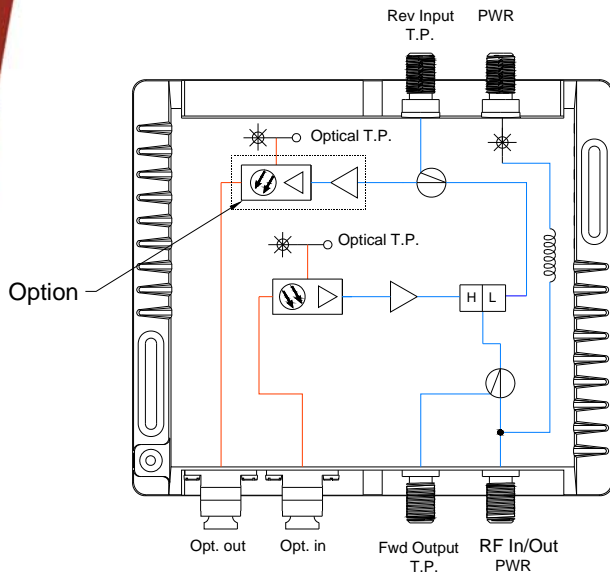
Optical Specifications	
Output Wavelength	1310 nm +/-20 , 1550 nm +/-20
Optical Output Power	1 mW
Optical Return Loss	>55 dB for APC Connector
Optical Power Test Point	1 V/mW
Optical Indicator On	> -3 dBm
Link Performance	
CNR	>48 dB @ FP
CSO	<-51 dBc @ FP (2 channel loading)
CTB	<-55 dBc @ FP (2 channel loading)
RF Specifications	
Frequency Bandwidth	5 to 42 MHz
RF Input Levels	20 dBmV
Flatness	+/- 0.75 dB
Return Loss	> 16 dB

## General Specifications

Electrical, Environmental and Mechanical Specifications	
Power Consumption	<14 Watts
Powering	20~37 Vdc F-type connector AC to DC power adapter supplied or RF output port with optional power inserter
Operating Temperature	-40°C to +60°C 0°C to +40°C for power adapter
Humidity	< 95%
Dimensions	Length: 5.90" (150 mm) Height: 1.89" (48 mm) Width: 5.15" (130.8 mm)
Weight	1.76 lbs (0.8 kg)

\* Specifications are subject to change without notice.

## Standard Transmit / Receive Type



## Ordering Options

### North American Models Only (42/54MHz Split, NA Power Adapter)

ED1-20-FP2-1-SA10	ED1 Series Mini Node - with 1310nm FP 1mW tx with Isolator, 35 dBmV output
ED1-20-FP6-1-SA10	ED1 Series Mini Node - with 1550nm FP 1mW tx with Isolator, 35 dBmV output

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