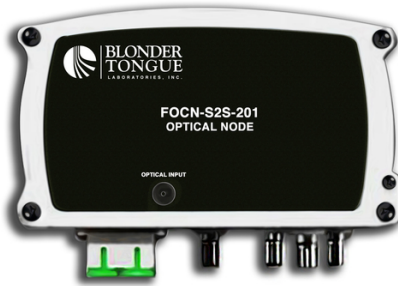


# FOCN Series

## Compact Fiber Optic Node



The FOCN-20X Series is a low-cost, compact 2-way node designed to deliver the full array of CATV services presently available and those planned for the future. These services include video (analog and digital), high speed data and telephony. The FOCN has applications for the direct fiber transmission of CATV RF signals in MDU, industrial, government and educational facilities, or wherever a high performance compact indoor node is required. The unit is constructed with high quality components enabling it to meet or exceed its performance specifications in an uncontrolled indoor environment with wide temperature variations. The FOCN-20X is available in 5 models. All models have at their core a 1310/1550 nm optical receiver with exceptional optical sensitivity and 28 dBmV RF output at an optical input of -1dBm. The differences between the models pertain to return path operation.

Models are available in both 1-way or 2-way configurations. The 2-way models are available with either a 1310 nm FP laser or a 1310 nm or 1550 nm DFB laser. All 2-way models have a return RF bandwidth of 5-42 MHz. Other standard features include LEDs for optical input and laser status. Powering is via a 12 VDC supply and can be accomplished in either of two ways. To power locally, a separate power connector marked "+12 VDC power in", is provided. Alternately, the unit can accept 12 VDC from its RF output connector, thus permitting remote powering by duplexing the 12 VDC supply onto the RF output.

### ○ Features & Benefits

- Compact Size
- 870 MHz Forward Bandwidth, 5-42 MHz Return Bandwidth (on 2-way models)
- Tri-color LED for Optical Input Status
- LED Indicator for Return Laser Status
- 12 VDC Powering Versatility

### ○ Specifications

Forward Wavelength: 1310/1550 nm  
 Optical Input Range: -8 dBm to +2 dBm  
 Distortion @ 1 dBm Input, 28 dBmV Output @ 550 MHz  
 CNR: >54 dB  
 CSO: >65 dBc  
 CTB: >68 dBc  
 Forward RF Bandwidth: 54-870 MHz  
 Return RF Bandwidth: 5-42 MHz  
 Return Laser/Power:  
 7420-2: FP 2 dBm, 2 mW (non isol)  
 7420-3: FP 3 dBm, 2 mW  
 7420-4: DFB 4.8 dBm, 3 mW  
 7420-5: DFB 4.0 dBm, 2.5 mW  
 Return Wavelength:  
 7420-2: 1310 nm  
 7420-3: 1310 nm  
 7420-4: 1310 nm  
 7420-5: 1550 nm  
 Power Supply Voltage: 12 VDC  
 Power Dissipation: < 7 W  
 Power Supply/Inserter: ACCS-PSPI-12 (BT Stock No. 7416)  
 Physical Dimensions (WxHxL): 3" x 7" x 2.1"

### Connectors

Optical: SC/APC  
 RF: "F"

### ○ Ordering Information

Model	Stock No.	Description
FOCN-S4S-201	7420 1	Fiber Optic Compact Node, 28 dBmV RF Output 1310/1550 nm, 870 MHz, SC/APC Connectors
FOCN-S4S-202	7420 2	Fiber Optic Compact Node, 28 dBmV RF Output Forward RX 1310/1550 nm, 870 MHz, Return TX 1310 nm, 3 dBm FP (non isol)
FOCN-S4S-203	7420 3	Fiber Optic Compact Node, 28 dBmV RF Output Forward RX 1310/1550 nm, 870 MHz, Return TX 1310 nm, 3 dBm FP
FOCN-S4S-204	7420 4	Fiber Optic Compact Node, 28 dBmV RF Output Forward RX 1310/1550 nm, 870 MHz, Return TX 1310 nm, 4.8 dBm DFB
FOCN-S4S-205	7420 5	Fiber Optic Compact Node, 28 dBmV RF Output Forward RX 1310/1550 nm, 870 MHz, Return TX 1550 nm, 4 dBm DFB
<b>Accessories</b>		
ACCS-PSPI-12/u	7415	Power Supply, Compact Wall Mount and Power Inserter Use with FOCN-S4S-20X Series