

# SINGLE FIBER OPTICAL MINI NODE [OFCNS-X-X-X-X-X-X-X-X]

Fiber Products, Optical Nodes



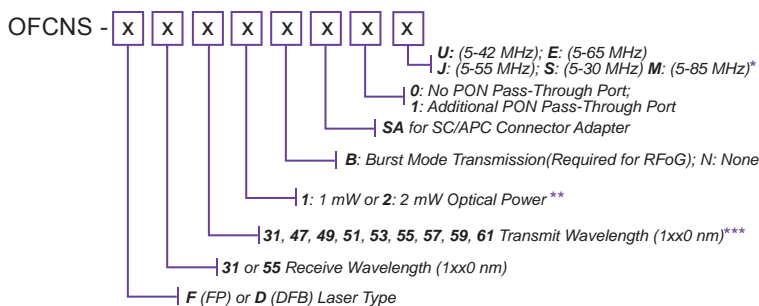
## Features

- 5-1002 MHz Frequency Design
- One Fiber Transports Forward(Downstream) and Return(Upstream) Signals with WDM Technology
- Selection of Forward(Downstream)/Return(Upstream) Frequency Splits
- Compact Aluminum Alloy Housing for Easy Installation
- Output Level 17-19 dBmV with -4 dBm Optical Input
- -20 dB Test Points for Forward(Downstream) and Return(Upstream) Testing
- RF Power Port or Through Designated F Port (via Power Inserter)
- B: Burst Mode Option (Required for RFoG)
- Optional PON Pass-Through Port
- FP or DFB Return(Upstream) Transmitter Lasers Available
- Power Adapter Included



\*5-30 or 5-55 MHz upstream available upon special request.  
 \*\*47-1002 or 70-1002 MHz downstream available upon special request.

## Ordering Information



\* S: Includes a South American Power Adapter // U: Includes a US Power adapter // E: Includes a European Power Adapter // J: Includes a Japanese Power Adapter // M: Includes a Malaysian Power Adapter  
 \*\* 3 mW and 4 mW are special order items.  
 \*\*\* 31, 55, 59 and 61 are the Only Transmit Options Compatible with RFoG (Burst Mode Option)  
 † Power Adapters May be Substituted Upon Request

Model Number	Standard Carton Qty	Inner Box Qty	Carton Weight	Dimensions
OFCNS-X-X-X-X-X-X-X-X	10	1	7.3 kg / 16 lbs	130 x 106 x 34 mm 5.1 x 4.2 x 1.3 in.

## Optical Receiver (Downstream)

Optical Wavelength	1300 - 1320 or 1540 - 1565 nm
Input Optical Power	-8 dBm      0 dbm
Optical Connector Type	SC / APC

## RF / Optical Receiver (Downstream)

Distortion Testing (@ -4 dBm Optical Input)	
CNR	> 48 dB
CSO	> 60 dB
CTB	> 65 dB

## RF / Optical Receiver (Downstream)

Forward Frequency Range	47/54/70/85/105 - 1002 MHz
RF Output Level (@ -4 dB Input OMI = 3.7%)	17 - 19 dBmV
Flatness	± 1 dB
Output Return Loss	> 16 dB F port at 75 Ohms

**Optical Return Transmitter (Upstream)**

<b>Wavelength</b>	1310 nm - 1610 nm*
<b>Laser Type</b>	Fabry-Perot (FP) or DFB
<b>Optical Output Power</b>	2 - 4 dBm
<b>Optical Return Loss</b>	50 dB

\* 31, 47, 49, 51, 53, 55, 57, 59, 61  
Transmit Wavelength (1xx0 nm)

**RF/Return Transmitter (Upstream)**

<b>Frequency Range</b>	5-30/42/55/65/85 MHz
<b>Flatness</b>	± 1.0 dB
<b>Return Loss</b>	≥ 16 dB
<b>Input Level</b>	20 - 45 dBmV
<b>Turn On Threshold</b>	10 dBmV

**General Specifications**

<b>RF Ports</b>	75 Ohm "F" Type
<b>Operating Temperature</b>	-40 to 60 °C (-40 to 140 °F)
<b>Storage Temperature</b>	-40 to 80 °C (-40 to 176 °F)
<b>Surge Withstand</b>	0.5µs - 100 KHz ring wave 6 kV/200A
<b>Power Supply</b>	5.1 x 4.2 x 1.3 in. 15 VDC 200 mA