

OPTICAL FIBER MDU NODE

[OFMNx-x-x-x-2-x-SA-x-x/x-x] Fiber Products, Nodes

Description

Taikan's OFMN Series is a high powered mini node designed for MDU or large facilities that are implementing FTTx and RFOG networks. These mini nodes are offered at 1 GHz and are available in a wide array of return(upstream) transmitters and band splits.

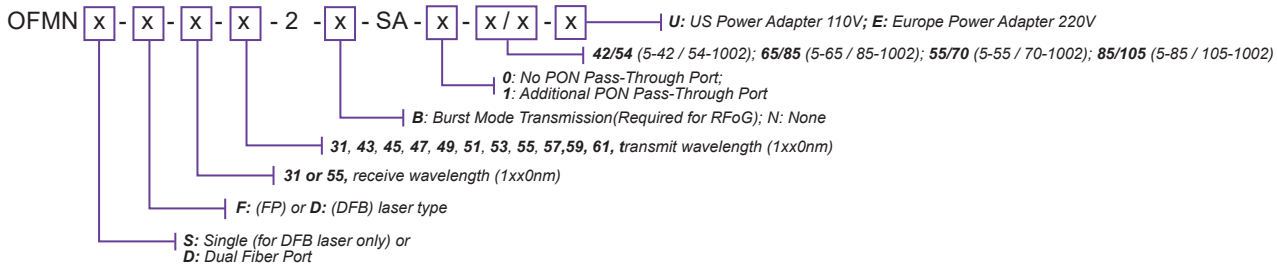
The OFMN is available in a WDM single fiber port version or a more economical dual port version. Each unit includes a separate power adapter that will adhere to the local requirements and a built-in LED to indicate power, optical input and transmit status.



Features

- Low Power Consumption
- Available WDM Technology
- High RF Power Output
- Compact Aluminum Alloy Housing
- External Input and Test Ports
- 1310, 1550 or ITU CWDM Return (Upstream) Transmitter Options

Ordering Information



+1430-1610nm transmit wavelength option only available for single fiber CWDM option

*FP laser only has 31, 55 as transmit wavelength options, DFB laser is available in all wavelengths

Optical Receiver Feature

Optical Wavelength	1200 - 1600 nm
Input Optical Power	-6 dBm 2 dBm
Optical Power Test Point	1 ± 0.2 V/mW
State Green	≥ -6 dBm
State Red	≤ -6 dBm

RF/Optical Receiver

Frequency Range	47/54/70/85/105 - 1002 MHz
RF Output Level	50 dBmV
Flatness	± 0.5 dB
Impedance	75 Ohms
Output Return Loss	> 16 dB
Distortion Performance (@ -1 dBm input)	
CNR	51 dB / 49 dB (@ -3 dBm input)
CSO	-67 dBc
CTB	-65 dBc

Optical Transmitter Feature

Output Wavelength	1310, 1550 *1430, 1450, 1470, 1490, 1530, 1570, 1590 and 1610 nm *(available for DFB Laser & CWDM Options)
Output Optical Power	2 mW
Optical Return Loss	-
Optical Power Test Point	1 V/mW
State Green	Laser Operating
State Red	Output Power < 50%

RF/Optical Transmitter

Frequency Bandwidth	5 - 30/42/55/65/85 MHz
RF Input Level	20 dBmV
Flatness	± 0.5 dB
Return Loss	> 16 dB
Distortion Performance (@ -1 dBm input)	
CNR	50 dBc
CSO	(-) 55 dBc
CTB	(-) 58 dBc

General Specifications

Operating Temperature	-40°C to 60°C (-40°F to 140°F)
Power Supply	25~30 VDC 15 W
Surge withstand	6kV, 8/20µs combo wave 3kA + 100kHz ring wave 200A
Dimensions	213 x 125 x 82 mm (8.4 x 4.9 x 3.2 in.)
RF Ports	"F" Type, 75 Ohms
Optical Connector Type	SC / APC (FC / APC available upon request)

Service Warranty: One Year

Optical Accessories

OFMN-EQ-X

Equalizer Pad - MDU Unit



- Used to increase the output tilt of the receiver on the MDU node.
- Available in 3, 6, 9, 12, 15 & 18 dB options

OFMN-ATT-X

Attenuator Pad - MDU Unit



- Used to adjust the amplifier levels on the MDU node.
- Available in 0, 2, 4, 6, 8, 10, 12, 14 & 16 dB options