

# OPTICAL FIBER MDU NODE [OFMNx-x-x-x-2-x-SA-x-x]

Fiber Products, Nodes



## Description

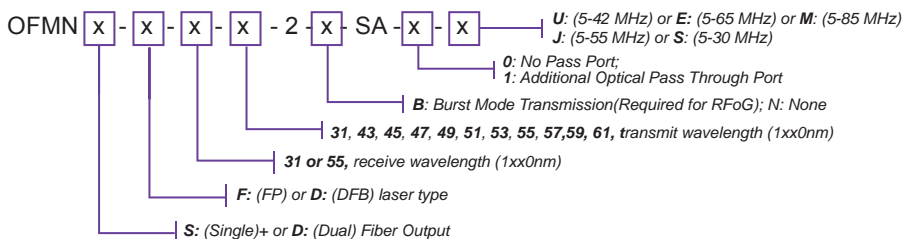
Taikan's OFMN Series is a high powered mini node designed for MDU or large facilities that are implementing FTTH and RFOG networks. These mini nodes are offered at 1 GHz and are available in a wide array of return transmitters and band splits.

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 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

\*\* U: includes a US power adaptor // E: includes a European power adaptor //

J: includes a Japanese power adaptor // S: includes a South American power adaptor



## 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

\*1002 MHz also available upon request.

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**Optical Transmitter Feature**

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

**RF/Optical Transmitter**

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

**General Specifications**

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

Service Warranty: One Year

**Optical Accessories**

**OFMN-EQ-X**

Equalizer Pad fo 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 fo 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