

Vx4N1000 4 Port Node

Description

The Vx4N1000 series are 1GHZ, high performance, 4 output optoelectronic nodes. The Vx4N1000 provides 55dBmV output level at 1000MHz with -1dBm optical input power. This node can be configured with up to 3 forward receiver modules for redundancy and up to 2 return path transmitter modules, providing system designers with an economic and robust solution for CATV optical network applications.

Features

- 1GHz Bandwidth
- 3 optical receiver modules
- 2 return optical transmitter modules
- 4 high output independently driven outputs
- Optical Input Power: -6dBm to +2dBm
- 15 continuous Ampere Power Passing
- Optional status monitoring and control
- Optional power supply redundancy
- Aluminum-Alloy housing, Anti-oxidation design



Specifications

Parameter	Unit	Specification
Forward		
Optical Performance		
Wavelength	nm	1290-1600
Input power	dBm	-6 to +2
Optical return loss	dB	>40
RF Performance		
Bandwidth	MHz	54/87-1000
Flatness	dB	+/-1
Return loss	-dB	≥16
Slope	dB	12+/-1
Output level	dBmV	42/48/52/55(at 54/550/870/1000MHz, -1dBm receiver power, OMI 3.5%)
Test point	dB	-20+/-1
Link Performance (10Km fiber + attenuator , -1dBm optical receive power, NTSC77 channels, OMI=3.5%)		
CNR	dB	>51
CSO	-dBc	>63
CTB	-dBc	>65
XMOD	-dBc	>63
Reverse		
Optical Performance		
Wavelength	nm	1310+/-20, or ITU CWDM
Output power	dBm	Refer to ordering information
RF Performance		
Bandwidth	MHz	5 to 42/65
Flatness	dB	+/-1
Return loss	-dB	≥16
Input level	dBmV	22+/-1
Test point	dB	-20+/-1

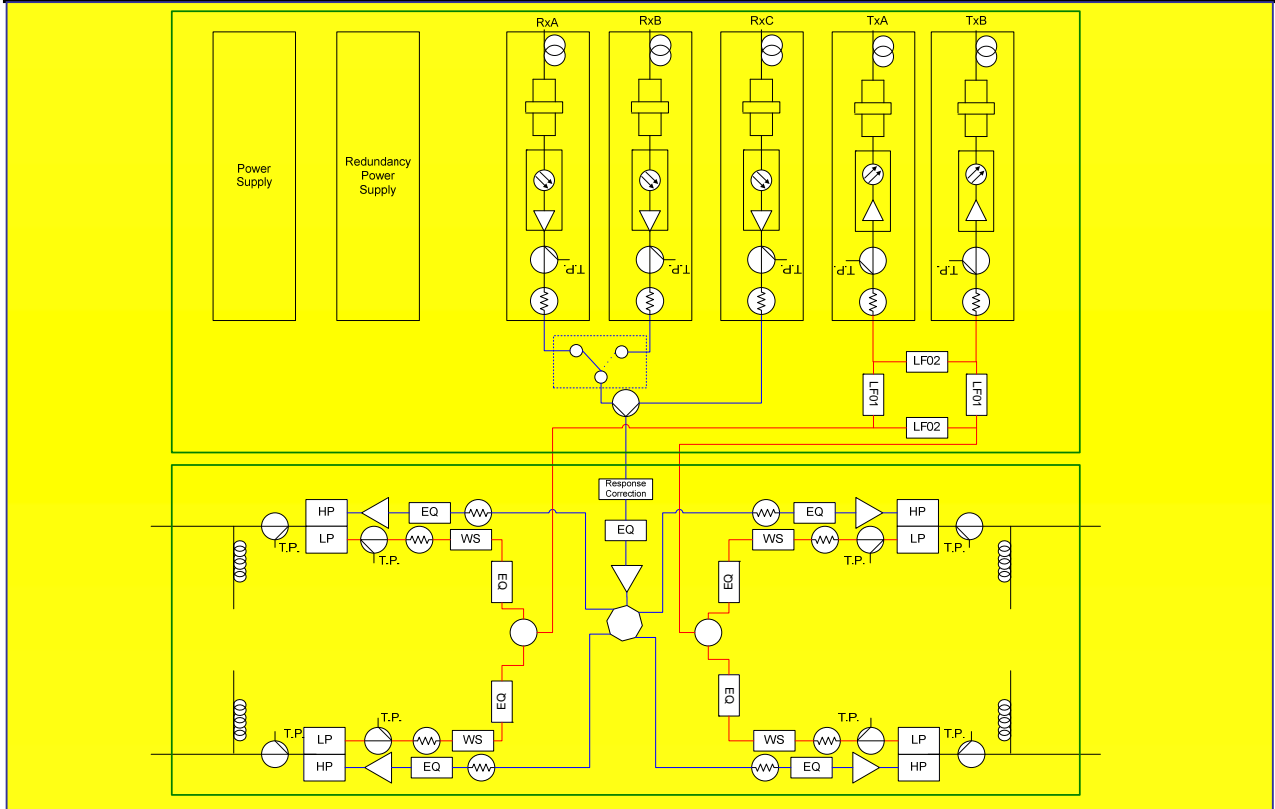
Link Performance (-6dBm input power , 10Km fiber + attenuator)

CNR	dB	>51
CSO	-dBc	>50
CTB	-dBc	>50

Electrical/Physical/Environmental Performance

Supply voltage	VAC	40-95 (47-63Hz)
Maximum input current	A	15
Power consumption	W	<80
Dimensions	mm	L x H x W, 480 x 225 x 255
Weight	Kg	15
Operating temperature	°C	-25 to +55
Storage temperature	°C	-40 to +70
Humidity	%	95% , non-condensing

Block Diagram



Ordering Information

Vx4N1000 - X - X - XXX - X - XX

Frequency

4:30/47
5:42/54
6:65/87

Module setting

1:1Rx, 0Tx
2:1Rx, 1Tx
3 :1Rx, 2Tx
4 :2Rx, 0Tx
5 :2Rx, 1Tx
6: 2Rx, 2Tx

Connector

SA:SA/APC
FA:FC/APC

Power supply

S: Single
D: Double

Return transmitter

000:None
FP1:1310 FP, 1mW,w/o iso
FP2:1310 FP, 1mW,w iso
DF0:1310 DFB, 2mW,w/o iso
DF1:1310 DFB, 2mW,w iso
DF2:1310 DFB, 3mW,w iso
C47-61:CWDM, 2mW,w iso