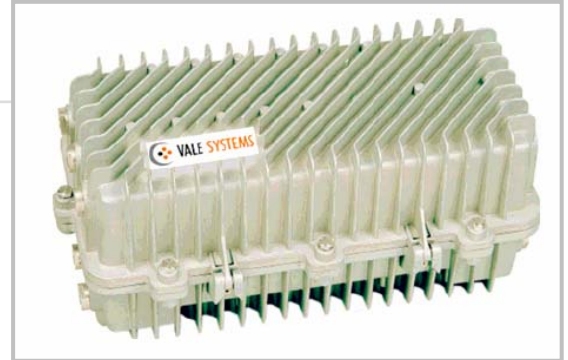


# Vx4N900 4 Port Node

## Description

The Vx4N-900 serial devices are high performance 4 outputs and compact size optoelectronic node. It is capable of providing 48dBmV output level at 870MHz with -1dBm optical input power. The Vx4N-900 serial are able to accommodate 3 forward receiver modules with redundancy functionality and 2 return path transmitter, providing system designer a economical and robust node in CATV optical network.



## Specifications

Parameter	Unit	Specification
<b>Forward</b>		
<b>Optical Performance</b>		
Wavelength	nm	1290-1600
Input power	dBm	-6 to +2
Optical return loss	dB	>40
<b>RF Performance</b>		
Bandwidth	MHz	54/70/85-870
Flatness	dB	+/-1
Return loss	-dB	≥16
Slope	dB	12+/-1
Output level	dBmV	35/44/47/48(at 54/550/750/870MHz, -1dBm receiver power, OMI 3.5%)
Test point	dB	-20+/-1
<b>Link Performance</b> (10Km fiber+attenuator , -1dBm optical receive power , NTSC77 channels , OMI=3.5%)		
CNR	dB	>51
CSO	-dBc	>63
CTB	-dBc	>65
XMOD	-dBc	>63
<b>Reverse</b>		
<b>Optical Performance</b>		
Wavelength	nm	1310+/-20, or ITU CWDM
Output power	dBm	Refer to ordering information
<b>RF Performance</b>		
Bandwidth	MHz	5 to 42/55/65
Flatness	dB	+/-1
Return loss	-dB	≥16
Input level	dBmV	22+/-1
Test point	dB	-20+/-1

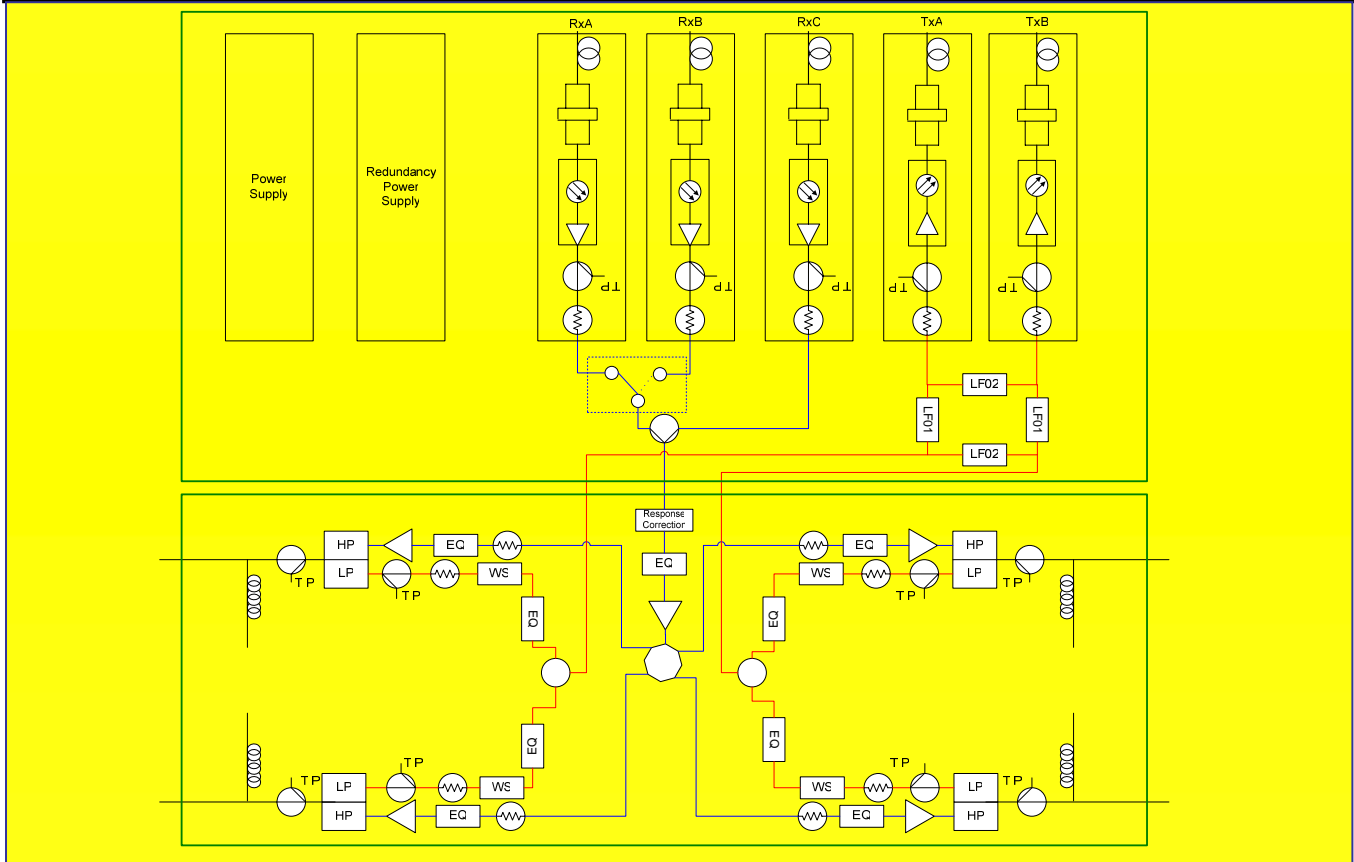
**Link Performance** (-6dBm input power , 10Km fiber+attenuator)

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	LxHxW, 480x225x255
Weight	Kg	15
Operating temperature	°C	-25 to +55
Storage temperature	°C	-40 to +70
Humidity	%	95% , non-condensing

# Block Diagram



## Features

- 870MHz Bandwidth
- 3 optical receiver modules
- 2 return optical transmitter modules
- 4 high output individual paths
- Optional power supply redundancy
- 15 continuous Ampere Power Passing
- Optional status monitoring and control
- Optical Input Power: -6dBm to +2dBm
- Aluminum-Alloy housing, Anti-oxidation design

## Ordering Information

