

Vx2N900 2 Port Node

Description

The Vx2N900 serial devices are high performance 2 outputs and compact size optoelectronic node. It is capable of providing 36(for VL2N900) or 54(for VH2N900) dBmV output level at 870MHz with 0dBm optical input power. The Vx2N-900 serial are able to accommodate 2 forward receiver modules with redundancy functionality and 1 return path transmitter, providing system designer a economical and robust node in CATV optical network.



Specifications

Parameter	Unit	Specification	
Forward			
Optical Performance		High output	Low output
Wavelength	nm	1200-1600	1200-1600
Input power	dBm	-3 to +2	
Optical return loss	dB	>40	
RF Performance			
Bandwidth	MHz	54/70/85-870	
Flatness	dB	+/-1	
Return loss	-dB	≥16	
Slope	dB	15	8
Output level	dBmV	35/50(dual) , 39/54(single)	24/32(dual) , 28/36(single)
Test point	dB	-20+/-1	-20+/-1
Link Performance (15Km fiber+attenuator , 0dBm optical receive power , NTSC77 channels , OMI=3.5%)			
CNR	dB	>51	
CSO	-dBc	>61	
CTB	-dBc	>61	
XMOD	-dBc	>63	
Reverse			
Optical Performance			
Wavelength	nm	1310+/-20,1550+/-20 or ITU CWDM	
Output power	dBm	Refer to ordering information	
RF Performance			
Bandwidth	MHz	5 to 42/55/65	
Flatness	dB	+/-1	
Return loss	-dB	≥16	
Input level	dBmV	17	
Test point	dB	-20+/-1	

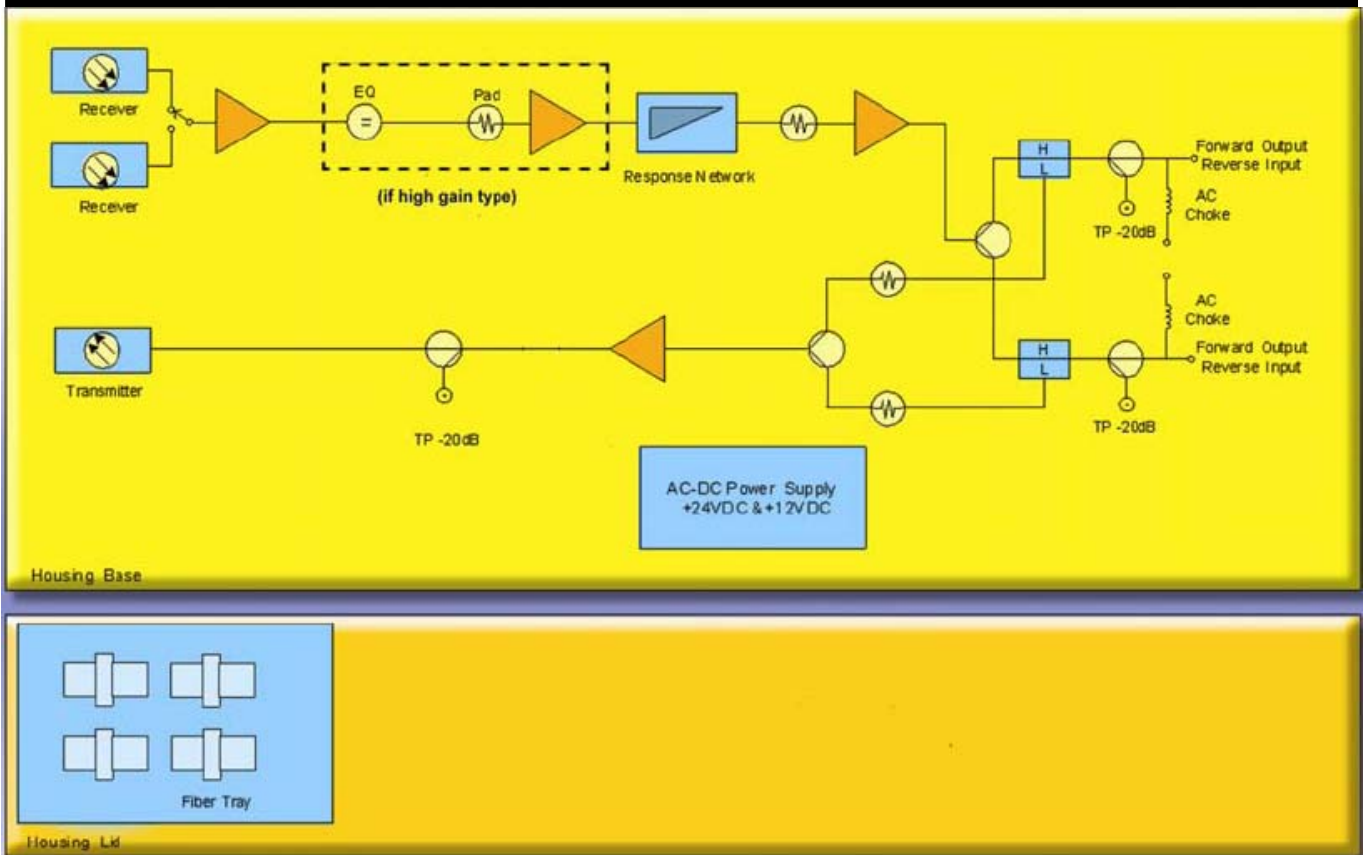
Link Performance (10dB link loss , 15Km fiber+attenuator)

CNR	dB	>45
CSO	-dBc	>45
CTB	-dBc	>45

Electrical/Physical/Environmental Performance

Supply voltage	VAC	40-90(47-63Hz)
Maximum input current	A	10
Power consumption	W	<25
Dimensions	mm	LxHxW, 257x145x201
Weight	Kg	5
Operating temperature	°C	-40 to +60
Storage temperature	°C	-40 to +85
Humidity	%	95% , non-condensing

Block Diagram



Features

- 1 or 2 output ports
- Up to 32(for VL2N-900) or 50(for VH2N-900) dBmV output power at 870MHz
- Compact size
- Fiber management tray
- Redundant receiver
- -20dB directional coupler test points
- Plug-in pads
- Optional return path FP or DFB transmitter
- 360 die-cast housing
- 10 amperes continuous power passing
- 8(for VL2N900) or 15(for VH2N900) dB slope

Ordering Information

