

▶ DESCRIPTION

Radiant Communications VL2200 Series are broadband optical receivers and the VL2300 are the broadband transmitters.

There are two versions of systems; 40 channel and 80 channel units. Both systems will transmit CATV signals from 20 MHz to 860 MHz in bandwidth. The VL2200/2300 broadband systems are designed to be used in small to medium campus links, which can incorporate high split couplers. They will transport up to 80 VSB-AM video channels up to 30 km while maintaining good Carrier to Noise and Carrier to Distortion parameters. Only available in 1310 nm.



**Radiant
Communications
Corporation**

▶ **VL2200/2300 Broadband Transport**

▶ **BENEFITS**

Simple installation and operation
Transmission distances of 30 km

▶ **FEATURES**

40 or 80 channel units
45 to 870 MHz bandwidth
One U high rackmount units

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▶ VL2200/2300 Broadband Transport

SPECIFICATIONS

Transmitter

Wavelength:	1310 nm \pm 20 nm
Conversion Efficiency	>0.1 mW/mA (6m W) >0.2 mW/mA (8-14 mW)
Laser type:	DFB
Optical Output Power:	up to 20 mW
Connector type:	SC/APC or FC/APC
Fiber Core:	9/125 μ m
Bandwidth:	45-870 MHz
Flatness:	<+/- 0.75 dB
Attenuator Adjustment Range	10 dB
RF Input return loss:	>14 dB
RF connector:	F type
Operating Temperature:	-10 to 50° C
Storage Temperature:	-15 to 55° C
Power:	100 ~ 260 VAC
Dimensions:	19" L x 1.7" H x 8.6" W
Following specs @ channel 59; -1 dBm optical receive	
CTB:	< -65 dBc
CNR:	< 52 dBc
CSO:	< -61 dBc

Receiver

Bandwidth:	20—860 MHz
Flatness:	< +/- 0.75 dB
Output return loss:	>16 dB
Second Order Distortion:	<-70 dBc
Triple Order Distortion:	<-75 dBc
RF Amplifier:	19 dB gain
Maximum optical input:	+3 dBm
Minimum optical input:	-6 dBm
Optical Wavelength:	1310 nm
Optical Connector:	SC/APC
RF Connector:	F type
Operating Temperature:	-20° to +40° C
Storage Temperature:	-30° to 80° C
Power:	10W @ 90 to 240V AC
Dimensions:	19.0" W x 8.6" D x 1.7" H

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
VL2240-R	CATV 40 Channel Receiver
VL2340-T10	CATV 40 Channel - 10 milliwatt Transmitter; 10 dB loss budget
VL2340-T13	CATV 40 Channel - 20 milliwatt Transmitter; 13 dB loss budget
VL2280-R	CATV 80 Channel Receiver
VL2380-T10	CATV 80 Channel - 10 milliwatt Transmitter; 10 dB loss budget
VL2380-T13	CATV 80 Channel - 20 milliwatt Transmitter; 13 dB loss budget

Note:

- For higher optical budgets and distances, contact factory



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