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.
## SPECIFICATIONS

### 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

### Transmitter
- **Wavelength:** 1310 nm ± 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 um
- **Bandwidth:** 45-870 MHz
- **Flatness:** <+/-.075 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

### Ordering Information

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>VL2240-R</td>
<td>CATV 40 Channel Receiver</td>
</tr>
<tr>
<td>VL2340-T10</td>
<td>CATV 40 Channel - 10 milliwatt Transmitter; 10 dB loss budget</td>
</tr>
<tr>
<td>VL2340-T13</td>
<td>CATV 40 Channel - 20 milliwatt Transmitter; 13 dB loss budget</td>
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<tr>
<td>VL2280-R</td>
<td>CATV 80 Channel Receiver</td>
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<tr>
<td>VL2380-T10</td>
<td>CATV 80 Channel - 10 milliwatt Transmitter; 10 dB loss budget</td>
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<tr>
<td>VL2380-T13</td>
<td>CATV 80 Channel - 20 milliwatt Transmitter; 13 dB loss budget</td>
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**Note:**
- For higher optical budgets and distances, contact factory