Radiant’s VABX Series is capable of transmitting up to 64 baseband video and 128 audio signals over one (1) single-mode fiber for distances of 100+ KM.

The optional VABX-RP (Repeater) can be used to extend the distance of the system to over 500KM. For central management, you can add the optional NMS modules for real-time networked diagnostic information. Options are available for drop-and repeat or insert-and repeat applications.

Radiant offers two versions of NTSC video quality for fiber transport, 8-bit which the VABX uses, offering RS-250 medium haul quality featuring greater than 60 db signal to noise quality. Or 12-bit quality with the VASHX series offering RS-250 short haul quality that has greater than 68 db signal to noise.

Like most Radiant products setup and installation is simple and easy as no adjustments are required.
VABX700 Video/Audio Multiplexer

SPECIFICATIONS

RS250 Medium Haul Video

8-bit Digitally encoded Video
Video Level: 1 Volt peak peak
Video Bandwidth: 6 MHz
SNR/CTN: > 60 dB
I/O Impedance: 75 Ohms

Optical

Wavelength: 1310nm, 1550nm, CWDM, DWDM
Number of Fibers: 1
Power Budget: see table below

General Characteristics

Power: 15W @ 90 to 240V AC
Operating Temp: -20° to 50° C
Storage Temp: -40 to 85° C
Size:
(up to 4V/8A, not expandable) 17.0” W x 13.0D x 1.75” H
(for all others config. And expandable) 17.0” W x 13.0D x 3.5” H

Audio

18-bit Digitally Encoded Audio
Input/Output Signal Level: 0dB (2Vp-p)
Input/Output Impedance: 10k or 600 Ohms
Bandwidth: 20Hz to 24kHz

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>WAVELENGTH</th>
<th>OPTICAL BUDGET</th>
<th>DISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>VABX7XYSA-T-WZ3</td>
<td>Transmitter A/V</td>
<td>1310nm</td>
<td>10db</td>
<td>25km</td>
</tr>
<tr>
<td>VABX7XYSA-R-WZ3</td>
<td>Receiver A/V</td>
<td>1310nm</td>
<td>10db</td>
<td>25km</td>
</tr>
</tbody>
</table>

Note:
- Specify X—number of video channels
- Specify Y—number of Audio channels
- Specify W—packaging: U—1U high box (up to 4 Video and 8 Audio, not expandable), 2—2U high box
- Specify Z—connector type: A—SC/APC, E—SC, B—FC, Z—FC/APC, D—ST
- Add –NMS to part number for NMS status monitoring
- Add –E to part number for expandable units
- For higher optical budgets and distances, 1550nm versions, CWDM and DWDM systems, contact factory