

VAB745 Dual HDTV and NTSC Transport System

DESCRIPTION

Radiant's VAB745 series is designed to meet "Must Carry" requirement for both HDTV and Standard NTSC signals.

This system combines both types of signals onto one fiber for transmission from the studio to the CATV headend making efficient use of the existing fiber between facilities.

The standard product combines one channel of each (NTSC + DVB) onto one single mode fiber for transmission distances of 100Km or more. NTSC short haul video offers 4 audio channels and NTSC with medium haul specifications has 2 audio channels per video.

There are many options— multiple channels of each signal type can be combined onto one (1) fiber; the standard NTSC signal can meet either RS250 Medium or Short Haul specifications. Digital transport will handle either ASI or SMPTE 310. Other signals can also be transported— SMPTE 292, ask factory.

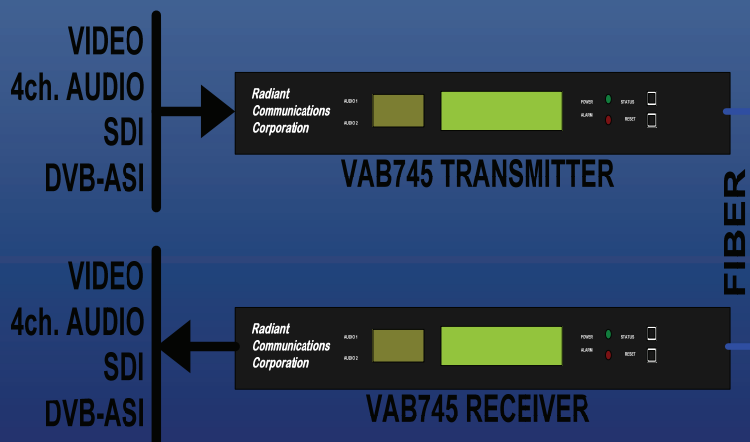


BENEFITS

- Meets new "Must Carry" requirement
- One fiber transmission with multiple signals
- Transmission distances of 100 km or more

FEATURES

- Combines DVB+NTSC V/A onto one single mode fiber
- Choice of Medium or Short Haul Video specifications
- Handles ASI or Serial Digital signal transport



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SPECIFICATIONS

RS250 Medium Haul Video

Type: 8-bit Digitally Encoded Video
 Video Bandwidth: 8 MHz
 SNR/CTN: > 60 dB
 Input Level: 1 volt peak to peak
 I/O Level: 75 Ohms

RS250 Short Haul Video

Type: 12-bit Digitally Encoded Video
 Video Bandwidth: 8 MHz
 SNR/CTN: > 67 dB
 I/O Level: 75 Ohms

Audio

Type: Medium Haul: 18-bit Digitally Encoded Audio
 Short Haul: 24-bit Digitally Encoded Audio
 Input/Output Signal Level: up to +20dB (20Vp-p) Max.
 Input/Output Impedance: 10k or 600 Ohms
 Bandwidth: 20Hz to 24kHz

DVB

Signals: SMPTE 259, 292, 310
 Bandwidth: 270 MBS
 Impedance: 75 ohms

Optical

Wavelength: 1310/1550nm, 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: 17.0" W x 13.0D x 1.75" H

OPTICAL POWER BUDGET

FIBER	WAVELENGTH	OPTICAL BUDGET	DISTANCE
SINGLEMODE	1310/1550nm	18 db	50 km
SINGLEMODE	CWDM	14 db	50 km

Contact Factory for higher optical budgets and distances

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
VAB745S-XM/YD-T-UZW	Transmitter, RS-250 Medium Haul Video with 2 audio channels and 1- 270MB DVB stream
VAB745S-XM/YD-R-UZW	Receiver, RS-250 Medium Haul Video with 2 audio channels and 1- 270MB DVB stream
VAB745S-XS/YD-T-UZW	Transmitter, RS-250 Short Haul Video with 4 audio channels and 1- 270MB DVB stream
VAB745S-XS/YD-R-UZW	Receiver, RS-250 Short Haul Video with 4 audio channels and 1- 270MB DVB stream

Note:

- Specify X—number of video channels,
- Specify Y—number of DVB channels
- Specify Z—connector type: A—SC/APC, E—SC, B—FC, Z—FC/APC
- Specify W—wavelength: 6—1310/1550nm, C—CWDM wavelengths, D—DWDM (ITU Grid) wavelengths.
- Maximum attenuation can be increased
- Single channel system is 1U high, multiple channel systems will be higher
- CR200 Card Cage version available
- For other types of HDTV or SDI signals, contact factory
- For DWDM systems, contact factory
- Due to product enhancements, specifications subject to change without notice



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