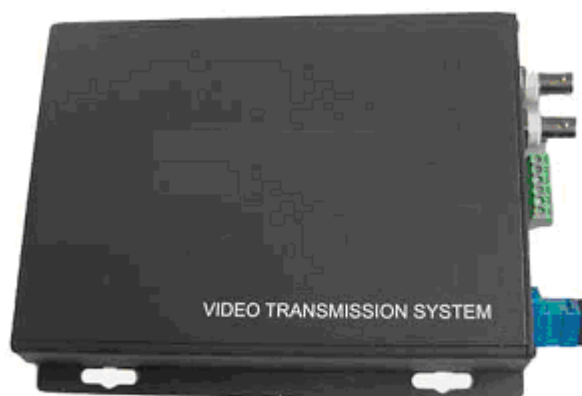


Uncompressed Digital Video/Audio Fiber Module

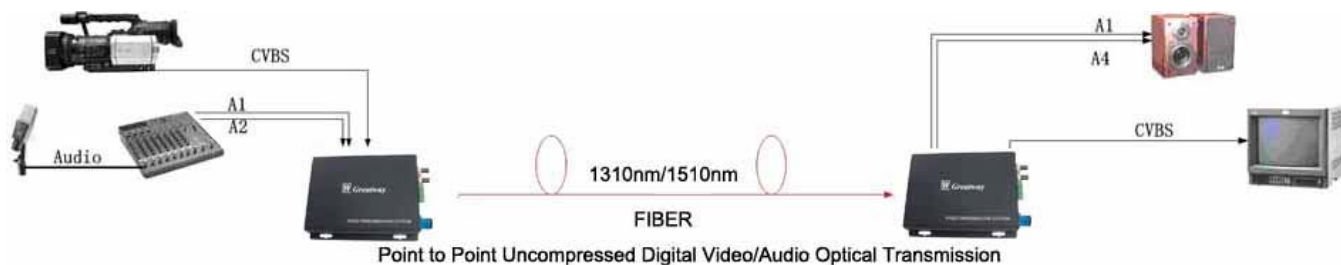


The AVM series Tx/Rx are uncompressed digital video/audio fiber optic transmission products for wall mount. The input to optical transmitter module can be 1 video with 2 audios, 2 videos with 4 audios. The analog video is converted into data in 10bit A/D and the audio is converted into data in 20bit A/D. The uncompressed video/audio data is transmitted to the optical receiver module, which outputs the broadcasting class analog video and audio.

Features:

- 10bit video conversion and 20bit audio conversion
- Wide dynamic video AGC supports 0.6V~1.6V video input level
- Audio output can be balanced/unbalanced auto switching with ESD protection
- Maximum fiber distance up to 120Km
- System topology can be point to point or point to multi-point

Applications:



Specifications

Video Input		Audio Input	
Video Channel	1 or 2	Audio Channel	2 or 4
Video Level	0.6~1.6 V _{P-P}	Max. Audio Level	17.4 V _{P-P} (+18dBm)
Video Impedance	75Ω	Audio Bandwidth	20Hz~20 KHz
Connector	BNC	Audio Impedance	600Ω
		Connector	3 PIN Balanced
Optical Parameter			
Wavelength	1310 nm/1550 nm or CWDM wavelength		
TX power	-12dBm~3 dBm		
RX sensitivity	-32dBm~-3 dBm		
Transmission	2Km(multimode), 20Km, 40Km, 60Km, 80Km, 100Km+		
Connector	SC/PC		
Video Output		Audio Output	
Video Channel	1 or 2 or 4	Audio Channel	2 or 4 or 8
Output Level	1 V _{P-P}	Maximum Level	17.4 V _{P-P} (+18dBm)
SNR	> 71dB	SNR	> 86 dB (unweighted)
Differential Gain	< 1%	Harmonic Distortion	< 0.2 %
Differential Phase	< 1°	Bandwidth	20Hz ~ 20 KHz @-0.5 dB
Flatness	±0.2dB to 5.75MHz	Audio Channel Isolation	> 90 dB @ 1KHz > 90 dB @20KHz
Lum/Chr Delay	< 10ns	Impedance	40Ω
Impedance	75Ω	Connector	3 PIN Balanced
Connector	BNC		
Operation Temperature		0~50°C	
Power Supply		12V DC (External AC 95~265V, 50/60Hz)	
Power Consumption		<5W	
Dimension		160×140×28 (mm)	

Ordering Information:

AVSM-AB-CD-E (e.g. AVSM24-60)

A: Analog video channel number 1 or 2

B: Analog audio channel number 2 or 4

CD: Fiber distance 20-20Km, 40-40Km, 60-60Km, 80-80Km, 100-100+ Km

E: Optional CWDM wavelengths (AVSM-20-1550 is 20km singlemode 1550nm)