

The 5100 SERIES 3G/HD/SD-SDI



Single Channel Fibre Optic CCTV Transmission Solutions





The AMG5100 Series is created for low cost, point-to-point single channel transmission of HD/SD-SDI video and audio. It is designed for singlemode fibre.



[RECEIVER]



[TRANSMITTER]

 Video x1	 Audio In/Out	 Single-mode	 Temp -25~+65°C
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/ OVERVIEW

The system provides high quality, low cost transmission of uncompressed and unencrypted digital video signals (optionally including embedded audio and/or time code). The video is transmitted in full bandwidth digital format ensuring optimum transmission performance regardless of distance. As no compression of the video is used, there is no latency or compromise on quality.

SDI was developed by and for the broadcast and consumer industry with the primary goal being the highest possible video & audio quality.

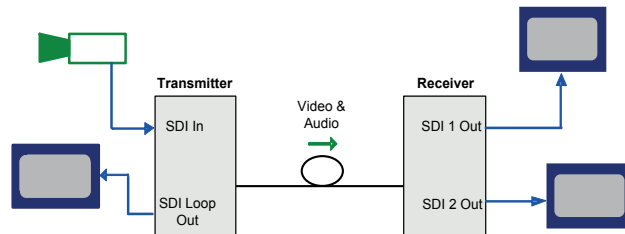
Advantages of the SDI format are low jitter, superior signal integrity and higher data rates (up to 3Gbit/s).

/ FEATURES

- Compact formats for minimum space usage
- Supports SDTV, HDTV (1080i or 1080p)
- 270Mbit/s - 1.48Gbit/s – 2.97Gbit/s
- 5-15V_{DC} supply voltage
- Supports embedded Audio and/or Time Code
- Singlemode Fibre
- Video Point-to-Point
- Audio Point-to-Point

Specifications.

Video.		General.	
Signal Type	SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI	Operating Temp.	-25°C to +65°C
Data Rate	270Mbit/s, 1.48Gbit/s, 3Gbit/s	Storage Temp.	-40°C to 85°C
Video Connector	BNC	Operating humidity	0 ~ 95% non-condensing
Cable Equalization	Automatic Cable EQ (Belden 169A cable) 205m @ 270Mbit/s, 140m @ 1.48Gbit/s, 80m @ 2.97Gbit/s	Indicators	Front panel LEDs
		EMC	CE approved
		MTBF	>250,000 hrs
Audio.		Power requirements.	
Sample rate	48kHz	Voltage	+5 to +15V _{DC}
Channels	16	Power	1.5W
Typical Bit Rate	HD 24-bit, SD 20-bit		
Optical.		Mechanical.	
Wavelength	1310nm	Case Material	Steel
Fibre	Singlemode	Weight	162g
Optical connector type	Simplex LC/PC	Dimensions	55 × 55 × 25mm
Typical Distance	10Km	(inc. Connectors)	55 × 83 × 25mm
		Resolutions Supported.	
		1.48Gbit/s	SD, 720p, 1080i
		2.97Gbit/s	up to 1080p



Part Numbers.

AMG5111	SDI Tx - 1.48Gbps (SD, 720p, 1080i)
AMG5112	SDI Rx - 1.48Gbps (SD, 720p, 1080i)
AMG5113	SDI Tx - 2.97Gbps (up to 1080p)
AMG5114	SDI Rx - 2.97Gbps (up to 1080p)

Recommended PSUs.

AMG2001 15Vdc @ 1A standalone PSU. For Indoor use only.

Notes.

SFPs included

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