V6751, V6753, V6755

SDI / Audio Fibre MUX / DE-MUX

SD AND AUDIO TO FIBRE MULTIPLEXER / DE-MULTIPLEXER

FEATURES

- Up to 4 AES channels supported
- Option for analogue audio
- DE-MUX / MUX version for processing pre-embedded audio
- Option for CVBS over fibre

The V6751, V6752 and V6753 are a family of products designed to meet the demand for handling audio and video within a fibre optic infrastructure. Each version is available with a variety of options, and collectively, virtually all scenarios for embedded audio can be handled. There is also an equivalent family of modules (V6351, V6353, V6354) that have been designed to provide similar facilities, but for use with a copper infrastructure. A separate datasheet on these products is available.

The V6751 is an SDI / audio multiplexer, equipped with a single mode fibre output (offered in a variety of wavelengths). It also has an SDI output of the embedded signal. It can be equipped with either analogue or AES inputs. Up to 2 AES (4 analogue) audio streams can be embedded. It is also available as the V6751Q, which can embed up to 4 AES (8 analogue) streams.

The V6753 is the equivalent module, but for demultiplexing application, using a fibre optic input. It is also available with up to 4 AES (8 analogue) audio channels.

The V6755 combines the multiplexing function of both the V6751 & V6753 on to a single module. It is available with either fibre input or output, and has the capacity to de-mux 2 AES channels and then re-mux them for onward transmission.

When a SDI input is used, it is possible to organise switching between 2 SDI sources. Alternatively, the second SDI input can be used as an additional SDI output.

Optionally the V6751 can be fitted with an analogue CVBS [PAL/NTSC] signal processor which allows composite video to be transmitted in the signal space normally occupied by digital video. An equivalent option to convert back to CVBS is available for the V6753.

V6751, V6753, V6755

SDI / Audio Fibre MUX / DE-MUX

Technical Specification

Serial Video Input

Sampling	SMPTE 259M
Line/field rate	525/60 and 625/50
Bit-serial	To ANSI/SMPTE 259M-ABC and EBU Tech. 3267-E
Data rate	270 Mbps
Cable equalisation	Automatic up to 250m (Belden 8281)
Impedance	75 ohm terminating
Return loss	>15dB, 5-270MHz

Digital Audio Inputs

Audio format	AES-3
Channels	Up to 4 AES (8 mono analogue)

Serial Video Output

Sampling	SMPTE 259M
Line/field rate	525/60 and 625/50
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Digital Audio Outputs

Audio format	AES-3
Channels	Up to 4 AES (8 mono analogue)

Optical Transmitter

Connector	SC/PC with shutter
Wavelength	1310nm to 1550nm
Fibre type	Single mode
Output power	User selectable Medium –7dBm (typ) High –3dBm (typ)

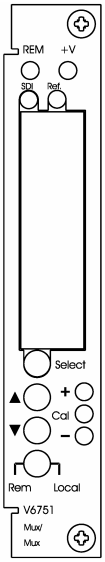
Optical Receiver

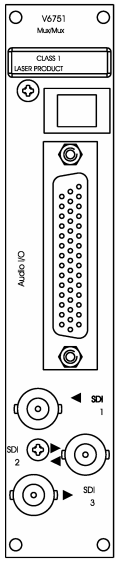
Connector	SC/PC with shutter
Input wavelengths	1100nm - 1650nm
Input sensitivity	-28dBm (typ)
Fibre type	Single mode
Transmission length	Up to 70km

Ordering Information

V6751/T13/D	SDI Multiplexer with Fibre TX @ 1310nm with 2 AES inputs
V6751/T15/D	SDI Multiplexer with Fibre TX @ 1550nm with 2 AES input
V6751/T13/A	SDI Multiplexer with Fibre TX @ 1310nm with 4 Analogue inputs
V6751/T15/A	SDI Multiplexer with Fibre TX @ 1550nm with 4 Analogue inputs
V6751Q/T13/D	SDI Multiplexer with Fibre TX @ 1310nm with 4 AES inputs
V6751Q/T15/D	SDI Multiplexer with Fibre TX @ 1550nm with 4 AES inputs
V6751Q/T13/A	SDI Multiplexer with Fibre TX @ 1310nm with 8 Analogue inputs
V6715Q/T15/A	SDI Multiplexer with Fibre TX @ 1550nm with 8 Analogue inputs
Options for V6751 & V6751Q	
/SQ	Allows CVBS to be transmitted to an equivalent /EX module
V6753/D	SDI De-multiplexer with Fibre RX @ 1310nm with 2 AES outputs
V6753/D	SDI De-multiplexer with Fibre RX @ 1550nm with 2 AES outputs
V6753/A	SDI De-multiplexer with Fibre RX @ 1310nm with 4 Analogue outputs
V6753/A	SDI De-multiplexer with Fibre RX @ 1550nm with 4 Analogue outputs
V6753Q/D	SDI De-multiplexer with Fibre RX @ 1310nm with 4 AES outputs
V6753Q/D	SDI De-multiplexer with Fibre RX @ 1550nm with 4 AES outputs
V6753Q/A	SDI De-multiplexer with Fibre RX @ 1310nm with 8 Analogue outputs
V6753Q/A	SDI De-multiplexer with Fibre RX @ 1550nm with 8 Analogue outputs
Options for V6751 & V6751Q	
/AP	Audio Processor, control of level and delay, shuffling
/EX	Allows CVBS to be received from an equivalent /SQ module
V6755/T13/D	SDI De-multiplexer/Re-multiplexer with Fibre TX @ 1310nm with 2 AES inputs & 2 AES outputs
V6755/T5/D	SDI De-multiplexer/Re-multiplexer with Fibre TX @ 1550nm with 2 AES inputs & 2 AES outputs
V6755/T13/A	SDI De-multiplexer/Re-multiplexer with Fibre TX @ 1310nm with 4 Analogue inputs & 4 Analogue outputs
V6755/T15/A	SDI De-multiplexer/Re-multiplexer with Fibre TX @ 1550nm with 4 Analogue inputs & 4 Analogue outputs
V6755/T13/DA	SDI De-multiplexer/Re-multiplexer with Fibre TX @ 1310nm with 2 AES inputs & 4 Analogue outputs
V6755/T15/DA	SDI De-multiplexer/Re-multiplexer with Fibre TX @ 1550nm with 2 AES inputs & 4 Analogue outputs
V6755/T13/AD	SDI De-multiplexer/Re-multiplexer with Fibre TX @ 1310nm with 4 Analogue inputs & 2 AES outputs
V6755/T15/AD	SDI De-multiplexer/Re-multiplexer with Fibre TX @ 1550nm with 4 Analogue inputs & 2 AES outputs
V6755/R/D	SDI De-multiplexer/Re-multiplexer with Fibre RX with 2 AES inputs & 2 AES outputs
V6755/R/A	SDI De-multiplexer/Re-multiplexer with Fibre RX with 4 Analogue inputs & 4 Analogue outputs
V6755/R/DA	SDI De-multiplexer/Re-multiplexer with Fibre RX with 2 AES inputs & 4 Analogue outputs
V6755/R/AD	SDI De-multiplexer/Re-multiplexer with Fibre RX with 4 Analogue inputs & 2 AES outputs
	N.B. Other Fibre TX wavelengths are available
Rear Modules	
V16FR3R	For all modules, except where /SQ or /EX option with BNC connection for CVBS is specified
V16FR3S	For V6751 & V6753 where /SQ or /EX option with BNC connection for CVBS is specified

Number of AES channels depends on variant
MUX / DE-MUX function depends on set up





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