



# V1633/A & V1633/D

## Dual Stereo Analogue or Dual AES to SDI Multiplexer

### FEATURES

- Automatic 625/525, SDI
- SDI synchronous sampling
- Synchronous/asynchronous AES
- Cascading for additional groups
- Balanced/unbalanced I/O options

DUAL STEREO ANALOGUE  
OR DUAL AES TO SDI  
MULTIPLEXER WITH THREE  
OUTPUTS



The V1633/A multiplexer module formats and inserts two analogue stereo audio pairs into the ancillary data space of a serial digital video signal, while the V1633/D multiplexer module inserts 2 AES/EBU audio signals. Three outputs of multiplexed serial digital video are provided. User selectable links allow existing embedded audio data to be passed or blanked.

# V1633/A & V1633/D

## Dual Stereo Analogue or Dual AES to SDI Multiplexer

### Technical Specification

#### Serial Video Input

Sampling	4:2:2 10 bit
Line/field rate	525/60 or 625/50
Bit-serial	To ANSI/SMPTE 259M-ABC and EBU Tech,3267-E
Data rate	270Mb/s
Cable equalisation	Automatic up to 250m (Belden 8281)
Impedance	75 ohm terminating
Return loss	>15dB, 5-270MHz

#### Analogue Audio Inputs (2 stereo) (V1634/A)

Resolution	20-bit
S/THD+N	<-85dB
Dynamic range	100dB
Max input	12dBu to +24dBu in 1 dB steps -> 0dBFS
Input impedance	20K
Input format	Balanced

#### Digital Audio Inputs (2 + Reference) (V1634/D)

Audio format	AES-3
Channels	4 (2 AES/EBU data streams)
Impedance options	75 ohm unbalanced BNC
or	110 ohm balanced screw terminal

#### AES Reference Input (V1634/D)

Audio format	AES-3
Impedance options	75 ohm unbalanced BNC
or	110 ohm balanced screw terminal

#### Video Reference Input (V1634/D)

Level	1V p-p analogue video
Format	625/50Hz, 525/60Hz black & burst
Connector	BNC
Impedance	75

#### Audio Formatting

Standard	SMPTE 272M
Level of operation:	
Level a	Synchronous audio 48kHz, 20 bits

#### Serial Video Output (3)

Bit-serial	To ANSI/SMPTE 259M-1993, EBU Tech. 3267-E
Data rate	270Mb/s
Cable drive	Up to 250m (Belden 8281)
Impedance	75
Return loss	>18dB, 5-270MHz
Amplitude	800mV p-p
Rise and fall times	0.75 - 1.5ns
Data jitter	±250ps

#### Ordering Information

V1633/A	Dual stereo analogue to SDI multiplexer
V1633/D	Dual AES to SDI multiplexer

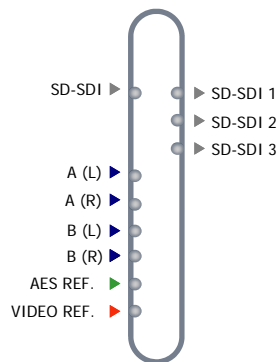
All Pro-Bel's quoted prices for interface modules include the supply of one suitable rear module. Both the V1633/A and V1633/D use the same rear modules. Please specify type required when placing order:

V16AR3R	3RU balanced
V16AR3S	3RU unbalanced
V16AR1R	1RU balanced
V16AR1S	1RU unbalanced

Note: Special versions of rear module are available on request.

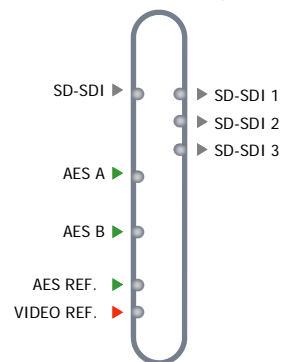
#### V1633/A

Analogue Audio & SD-SDI Multiplexer



#### V1633/D

AES & SD-SDI Multiplexer



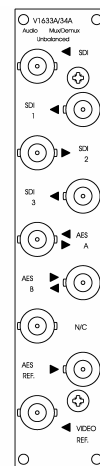
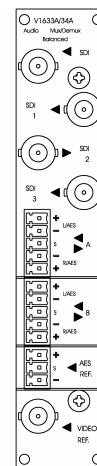
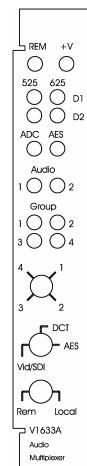
#### Controls

Group select  
Reference select

1 to 4  
Video/SDI  
AES  
Direct

Operating mode

Full SMPTE spec  
AES channels A & B packets aligned  
Basic embedding, no control status



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