

V1635/AA/ AD/DA/DD



Dual Channel Tracking Delay with Gain Control.



FEATURES

- Analogue levels to +28dBu (/AA)
- 32, 44.1, 48kHz sampling (/AD & /DD)
- Automatic 32, 44.1, 48kHz lock (/DA)
- Selectable 24/20-bit conversion (/AD & /DA)
- Variable to 1.25s, tracking to 40ms
- Test tone
- Gain control
- AES & video references (/AD & /DD)
- Re-sampling to reference (/DD)

The V1635 module provides audio delay for up to 2 AES/stereo analogue channels. The input and output configuration can be selected by choosing the appropriate option. Analogue in & out, analogue in and digital out, digital in and analogue out, digital in & out are all possible dependent upon the option chosen. A hybrid version with a mix of analogue and digital input & output (V1635/S) is also available.

The output delay is the sum of a variable and tracking delay. The total delay is applied to both stereo channels. Its primary function is to maintain correct audio timing w.r.t. video for a wide range of system applications. A variable delay from 0 – 1.25s can be set from the front panel or remotely from Viewfind and/or a V1605 control panel. Resolution is in 1ms steps up to 1.25s. A Delay Pulse input (TTL) provides an additional tracked delay of up to 40ms. This input is compatible with an output from a V1640 or V1641 SDI Frame Synchronizer.

On those options with AES outputs, an analogue video reference input allows the AES outputs to be made 'clock synchronous' with the video frame rate. Alternatively the AES outputs can be synchronized to an external AES reference. This has the additional benefit of aligning the AES block sequence. All channel status bits and validity flags are passed unaltered. User data bits are set to zero. All standard sampling rates are supported. AES inputs can be at different sampling rates from each other and from the reference.

Independent left and right channel gain controls are provided for both stereo pairs.

Technical Specification

Analogue Audio Inputs (2 stereo) (/AA & /AD)

Resolution 24-bit (DSP quantises down to 20-bit - link selectable)
 S/THD+N < -85dB
 Dynamic range 100dB
 Max. input 14dBu to +28dBu in 1dB steps ->0dBFS
 Input impedance 20k
 Input format Balanced

Analogue Audio Outputs (2 stereo) (/AA & /DA)

Resolution 24-bit (DSP requantises down to 20-bit - link selectable)
 S/THD+N < -85dB
 Dynamic range 100dB
 Max input 0dBFS ->14dBu to +28dBu in 1dB steps
 Output impedance 50
 Output format Balanced

Tracking Pulse Input

Level TTL (active high)
 Range 0 - 40ms
 Connector BNC
 Impedance High Z (> 10k)

AES Audio Inputs (2 + reference*) (/DA & /DD)

Sampling 32, 44.1 or 48kHz
 Format AES-3
 Impedance options 75 ohm unbalanced BNC AES-3id(1995)
 Or 110 ohm balanced screw terminal AES-3 (1992) (selected option must be same as output(s))
 Cable source length Up to 250m

* Link selectable 110/75 ohm or Hi-Z termination for loop through.

Adjustment Range

Variable delay 0 - 1.25 seconds
 Tracking delay 0 - 40ms
 Gain -16dB to +15dB in 1dB steps

AES Audio Outputs (2) (/AD & /DD)

Sampling 32, 44.1 or 48kHz
 Format AES-3
 Impedance options 75 ohm unbalanced BNC AES-3id(1995)
 Or 110 ohm balanced screw-terminal AES3-1992 (selected option must be same as input(s))
 Cable drive length Up to 250m

Video Reference Input (/AD & /DD)

Level 1V p-p analog video
 Format 625/50Hz, 525/60Hz Black & Burst
 Connector BNC
 Impedance 75 ohm

Ordering Information

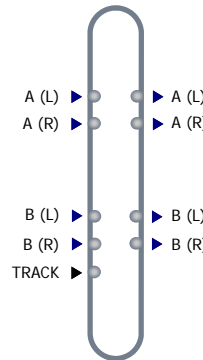
Please specify type required when placing order:

V1635/AA	Dual Stereo Analog Tracking Delay	V16AR3H	3RU balanced	V16AR1H	1RU balanced
V1635/AD	Dual Stereo Analogue to AES Tracking Delay	V16AR3M	3RU unbalanced	V16AR1M	1RU unbalanced
		V16AR3P	3RU balanced	V16AR1P	1RU balanced
V1635/DA	Dual AES to Stereo Analog Tracking Delay	V16AR3L	3RU unbalanced	V16AR1L	1RU unbalanced
		V16AR3H	3RU balanced	V16AR1H	1RU balanced
V1635/DD	Dual AES Tracking Delay	V16AR3N	3RU unbalanced	V16AR1N	1RU unbalanced
		V16AR3P	3RU balanced	V16AR1P	1RU balanced

All Pro-Bel's quoted prices for interface modules include the supply of one suitable rear module. Note: Special versions of rear module are available on request.

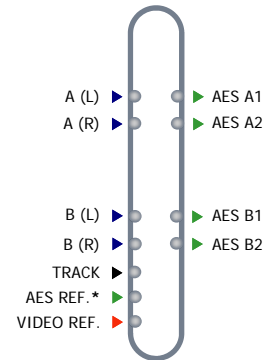
V1635/AA

Analogue Tracking Delay



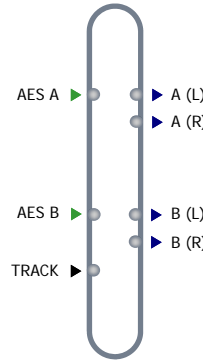
V1635/AD

Analogue to AES Tracking Delay



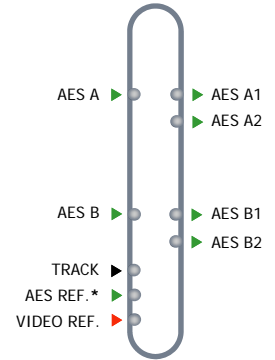
V1635/DA

AES to Analogue Tracking Delay



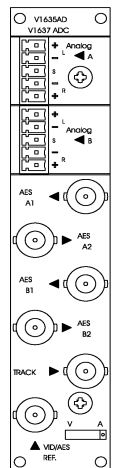
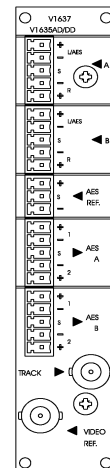
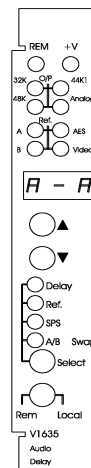
V1635/DD

AES Tracking Delay



Controls

Delay Up to 1.25s
 Reference Select Free, AES, Video
 Sample Rate Select Off, A, B, Both
 A/B Swap
 Input Gain (per channel) -16dB to +15dB



WWW.PRO-BEL.COM

UK
 +44 (0) 1189 866 123

USA
 +1 631 549 5159

France
 +33 (0) 1 45 18 39 80

Hong Kong
 + 852 2891 9123

