

Triple Video Distribution Amplifier

FEATURES

- Gain reserve.
- DC coupled.
- Longitudinal hum reduction.
- Cable equalisation.
- Three outputs.
- Terminating inputs.
- Suitable for standard and wideband analogue video signals.

APPLICATIONS

- Line equalising amplifiers.
- Component distribution amplifier.
- Isolation of multiple monitoring points.

GENERAL

The AVA-3900 is a high performance Eurocard video amplifier package containing three separate amplifiers.

Gain and cable equalisation controls are accessible on the front panel and the longitudinal hum reduction adjustment is an internal pre-set potentiometer.

The cable equaliser characteristics are pre-set to compensate for a maximum of greater than 250 metres of 75Ω video cable. This can be changed to accommodate different cable types.

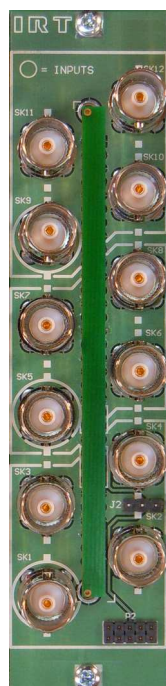
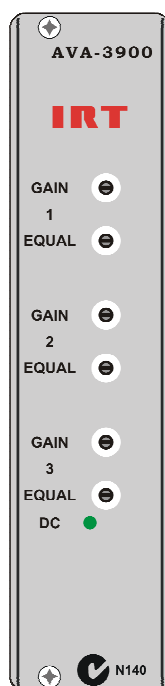
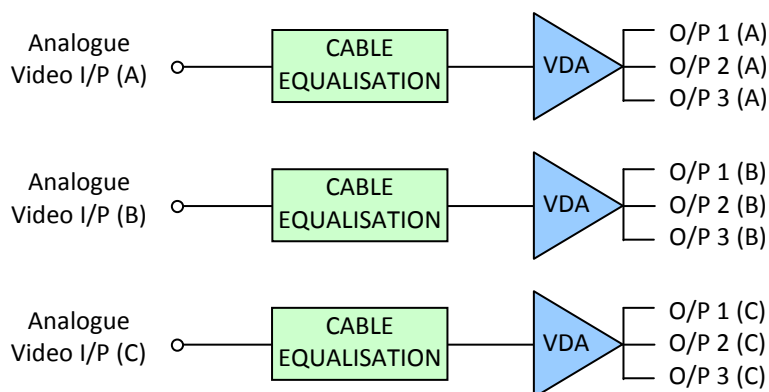
The AVA-3900 is a standard IRT Eurocard and is compatible with our other Eurocard products.

Two AVA-3900 Eurocards may be mounted in the IRT 1 RU chassis providing 6 VDA's in 1 RU.

Uses for the AVA-3900 include:

- Adjustment of gain and frequency response of multiple video signals at a central location.
- Isolation of multiple monitoring points.
- RGB / YUV signal distribution or monitoring.

BLOCK DIAGRAM AVA-3900 SIGNAL PATH



TECHNICAL SPECIFICATIONS

Inputs:

Type	AC coupled.
Number	3 x Composite PAL or NTSC, standard or wide band, or 1 x Component, RGB, YUV, YPbPr.
Input signal range	0.7 to 1.5 V p-p video signals.
Equalisation	Continuously variable front panel control. 250 m of 75 Ω cable (Belden 8281 or equivalent) for standard analogue; 50 m of 75 Ω cable (Belden 8281 or equivalent) for wide band analogue.
Connectors	BNC.
Impedance	Ground isolated, terminating into 75 Ω .

Outputs:

Type	DC coupled.
Number	3 (x 3).
Connectors	BNC.
Impedance	75 Ω source terminated.
Maximum output	2.0 V p-p video.

Performance:

Gain	Adjustable from -4 dB to +6 dB. Set by front panel control.
Frequency response	± 0.1 dB to 10 MHz; ± 0.2 dB to 50 MHz; -3dB > 100 MHz.
Differential gain	< 0.2% at 1V p-p, 4.43MHz.
Differential phase	< 0.2° at 1V p-p, 4.43MHz.
Longitudinal hum reduction	With input grounds isolated better than 40 dB at 50 Hz (internal pre-set adjustment).

Power requirement:

Voltage	28 Vac CT (14-0-14) or ± 16 Vdc.
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Other:

Temperature range	0 - 50° C ambient.
Mechanical	Suitable for mounting in IRT 19" rack chassis with all connections at the rear.
Finish:	Front panel Rear assembly
	Grey background, black lettering & red IRT logo.
	Detachable silk-screened PCB with direct mount connectors to Eurocard and external signals.
Dimensions	6 HP x 3 U x 220 mm IRT Eurocard.