

MULTI CONFIGURABLE ANALOG AUDIO DISTRIBUTION AMPLIFIER DIFFERENTIAL INPUTS and OUTPUTS

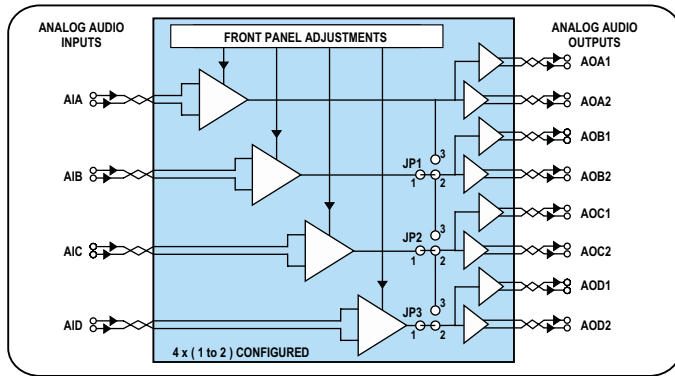
AAD 650

The **AAD 650** is a high-quality, multi configurable analog audio distribution amplifier.

Up to 4 distribution amplifier channels are available on the same electronic board. The number of outputs for each distribution amplifier depends of the configuration choice.

Each channel of the **AAD 650** included differential input(s) and outputs with short-circuit protected.

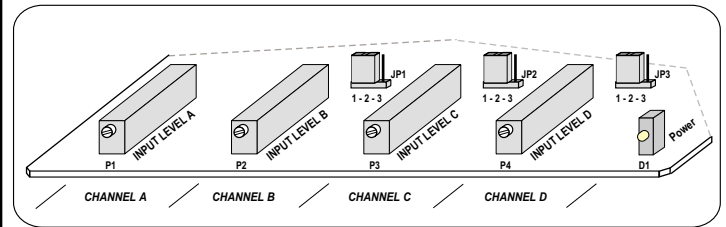
The **AAD 650** is designed on an "Europe" 3U electronic board.



Functional block diagram

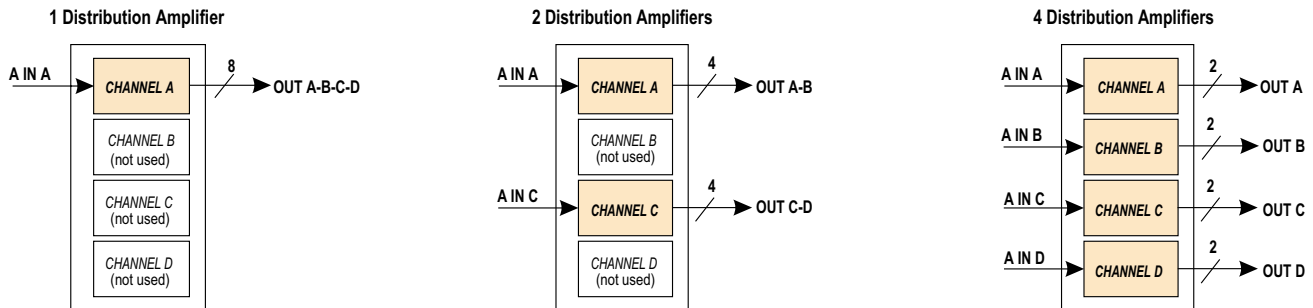
Features

- Differential analog audio input(s) and outputs
- Short-circuit outputs protected
- Configurations :
 - 1 x (1 to 8) or
 - 2 x (1 to 4) or
 - 4 x (1 to 2)
- Adjustable gain -18 dB to +18 dB
- 20 Hz to 20 kHz bandwidth
- Maximum audio level 24 dBu
- Controls and signalling on front side of the board
- Configurations by internal jumpers



Front edge of the board

Configurations



User Controls

FRONT PANEL ADJUSTMENTS

- P1 : Input level channel A adjustment
 P2 : Input level channel B adjustment
 P3 : Input level channel C adjustment
 P4 : Input level channel D adjustment

INTERNAL JUMPERS

- JP1-JP2-JP3 : Configuration jumpers
 4 x (1 to 2) distribution : JP1-JP2-JP3 = 1-2 jump
 2 x (1 to 4) distribution : JP1-JP3 = 2-3 jump and JP2 = 1-2 jump
 1 x (1 to 8) distribution : JP1-JP2-JP3 = 2-3 jump

FRONT PANEL STATUS LED

- D1 : Power supply present

Technical Specifications

INPUTS

- SIGNAL : Up to 4 symmetrical analog audio maximum level 24 dBu (with input adjustment between -18 and 0 dB)
 IMPEDANCE : 24 k Ω (differential)

OUTPUTS

- SIGNAL : 8 symmetrical analog audio mono short-circuit protected
 IMPEDANCE : < 10 Ω with 600 Ω minimum load

PROCESSING PERFORMANCE

- FREQUENCY RESPONSE : -0.05 dB 20 Hz to 20 kHz
 POWER : 5.5 W nominal
 9.5 W maximum

AAD 650

MULTI CONFIGURABLE ANALOG AUDIO DISTRIBUTION AMPLIFIER DIFFERENTIAL INPUTS and OUTPUTS

Overall Performances

Analog audio performances

Adjustment input level :	- 18 dB to + 18 dB	Cross talk :	< -110 dB
Noise floor :	- 97 dBu	Bandwidth at - 0,05 dB :	20 Hz to 20 kHz
THD at + 6 dBu :	< 0.001 %	Outputs :	All short-circuit protected

Mounting Frames

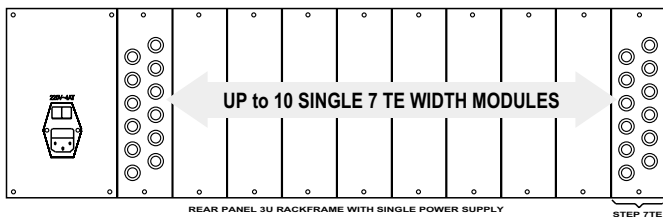
19" 3RU RACKFRAME

The 19" 3U rackframe holds up to 10 modules with single power supply unit and 9 modules with redundant power supply unit.

Access is given to electronic modules by rocking down the front panel. Ventilation of the rack is performed by forced convection.

Each module includes : electronic plug-in board, rear interconnection board, and rear mechanical support with the connectors.

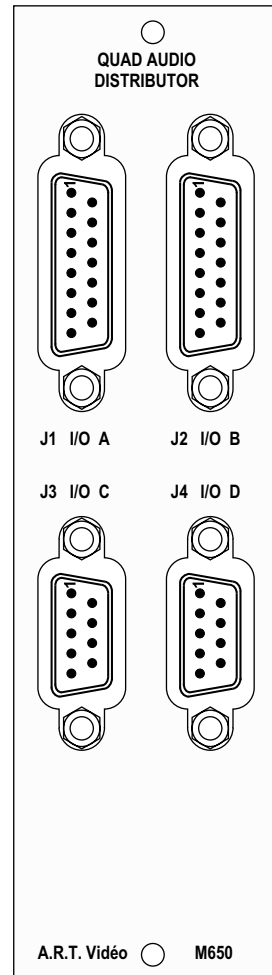
DIMENSION :	3RU x 410 mm deep
WEIGHT :	< 15 Kg
TEMPERATURE RANGE :	0 - 40°C
ELECTRONIC MODULES :	10 with single power supply 9 with redundant power supply
POWER INPUT :	88 - 135 V or 185 - 264 V (commutable) 50 / 60 Hz
POWER :	150 W max



3U MODULE REAR PANEL IN / OUT


I A+	1
I A-	9
GND	2
O A1+	10
O A1-	3
GND	11
O A2+	4
O A2-	12
GND	5
NC	13
NC	6
NC	14
NC	7
NC	15
NC	8

I B+	1
I B-	9
GND	2
O B1+	10
O B1-	3
GND	11
O B2+	4
O B2-	12
GND	5
NC	13
NC	6
NC	14
NC	7
NC	15
NC	8



I C+	1
I C-	6
GND	2
O C1+	7
O C1-	3
GND	8
O C2+	4
O C2-	9
GND	5

I D+	1
I D-	6
GND	2
O D1+	7
O D1-	3
GND	8
O D2+	4
O D2-	9
GND	5

A.R.T. Vidéo  M650

Ordering informations

19" 3RU rackframe

M-AAD650 :	multi configurable analog audio distribution amplifier 3U module for 19" 3RU rackframe (Electronic plug-in board and rear panel)	MOD 3U :	rear panel for 19" 3U rackframe
B-AAD650 :	multi configurable analog audio distribution amplifier (Electronic plug-in board)	RACK3U-1 :	19" 3RU rackframe with single power supply
		RACK3U-2 :	19" 3RU rackframe with redundant power supply
		BPM-1 :	blank rear panel unit

Specifications and designs are subject to change without notice