

DIGITAL VIDEO RECLOCKED DISTRIBUTION AMPLIFIER 1 SERIAL 4:2:2 INPUT to 8 SERIAL 4:2:2 OUTPUTS

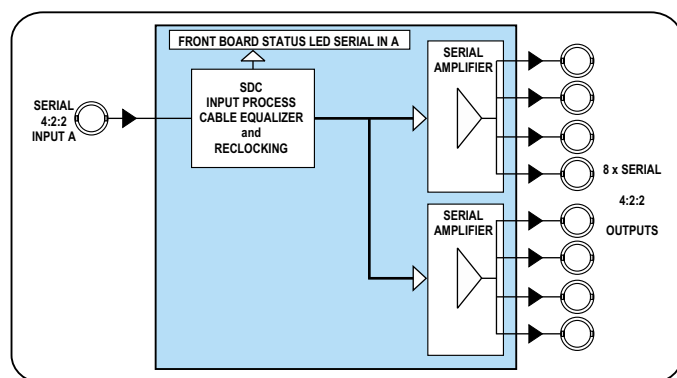
DVD 301

The DVD 301 is a high-quality serial 4:2:2 digital video reclocked distribution amplifier which provides automatic equalization for up to 250 meters of cable and full regeneration of the signal.

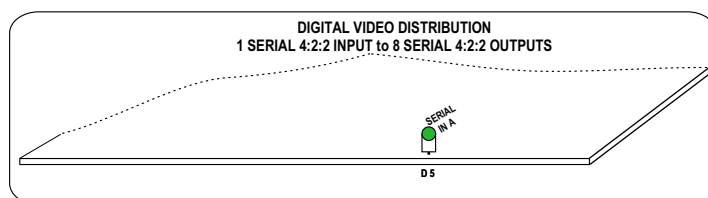
The DVD 301 is designed on an "Europe" 3U electronic board.

Features

- Serial 4:2:2 input
- 250 m automatic cable equalization and reclocking
- 8 reclocked serial 4:2:2 outputs
- Automatic 525/625-line standard detection



Functional block diagram



Front edge of the board

User Controls

FRONT PANEL STATUS LED

D 5 : Serial video detected

Technical Specifications

INPUT	OUTPUTS	PROCESSING PERFORMANCE
SIGNAL : 4:2:2 SMPTE 259M-C (270 Mbit/s)	SIGNAL : 4:2:2 SMPTE 259M-C (270 MBit/s)	QUANTIZATION : 10 Bit
CABLE LENGTH : > 250 m	RETURN LOSS : >15 dB up to 270 MHz	DELAY : < 10 ns
RETURN LOSS : > 15 dB up to 270 MHz	JITTER : typical value < 500 ps	POWER : 2 W

DVD 301

DIGITAL VIDEO RECLOCKED DISTRIBUTION AMPLIFIER 1 SERIAL 4:2:2 INPUT To 8 SERIAL 4:2:2 OUTPUTS

Overall Performances

Serial 4:2:2 input

Standard :	SMPTE 259-C
Nominal signal level :	800 mV
Common Mode Rejection :	30Vp-p, up to 60Hz
Return loss :	> 15dB to clock frequency
Equalization :	Automatic
Impedance :	75 Ω
Connector :	BNC

Serial 4:2:2 outputs

Standard :	SMPTE 259-C
Nominal signal level :	800 mV ± 10%
DC offset :	0V ± 0,5V
Rise and Fall Time :	400-700ps (20 to 80% amplitude)
Return loss :	> 15dB to clock frequency
Overshoot :	< 10% of amplitude
Impedance :	75 Ω
Connector :	BNC

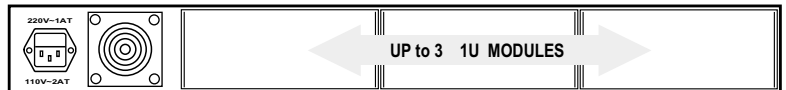
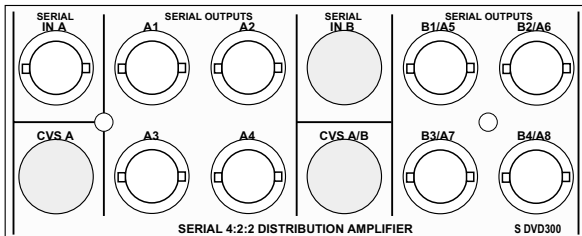
Mounting Frames

19" 1RU RACKFRAME

The 19" 1RU rackframe is divided into three identical parts meant to receive the electronic plug-in boards. Each part can hold two 3U Europe plug-in boards with modular rear panel and interconnection. The power supply is incorporated into the mechanical structure. Ventilation of the rack is performed by forced convection. Access is given to electronic plug-in boards by rocking down the front panel.

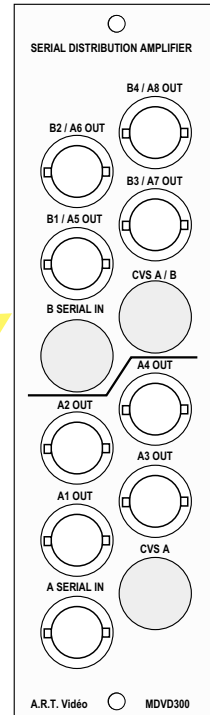
DIMENSIONS :	1RU x 380 mm deep	TEMPERATURE RANGE :	0-40°C	POWER INPUT RANGE :	97-240 V/50-60 Hz
WEIGHT :	< 5kg	ELECTRONIC PLUG-IN BOARDS :	up to 6	POWER :	80 W max

1U MODULE REAR PANEL



DVD 301
19" 1RU typical
Configurations

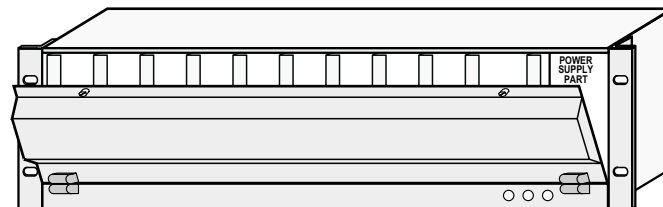
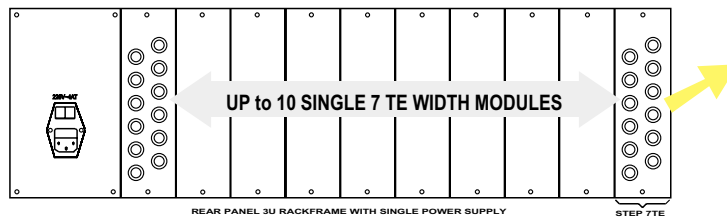
3U MODULE REAR PANEL



19" 3RU RACKFRAME

The 19" 3RU 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 (Switchable) 50 / 60 Hz
POWER :	150 W max



Ordering informations

19" 1RU rackframe

DVD301-S :	19" 1RU rackframe with 1 digital distribution amplifier
DVD301-D :	19" 1RU rackframe with 2 digital distribution amplifiers
DVD301-T :	19" 1RU rackframe with 3 digital distribution amplifiers

B-DVD301 : digital distribution amplifier electronic plug-in board

19" 3RU rackframe

M-DVD301 :	digital distribution amplifier 3U module for 19" 3RU rackframe (Electronic plug-in board and rear panel)
B-DVD301 :	digital distribution amplifier electronic plug-in board
MOD 3U :	rear panel for 19" 3RU rackframe
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