

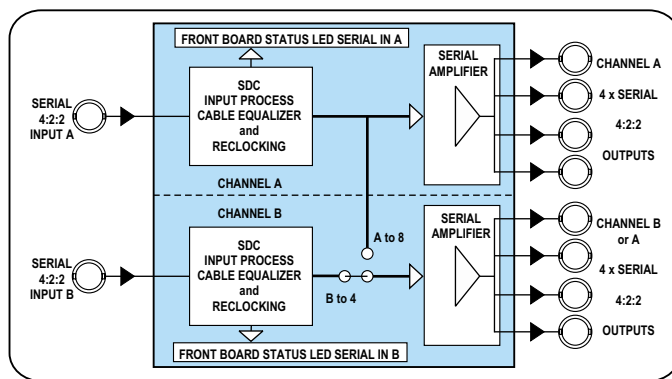
## DIGITAL VIDEO RECLOCKED DISTRIBUTION AMPLIFIER DUAL CHANNEL 1 SERIAL 4:2:2 INPUT to 4 SERIAL 4:2:2 OUTPUTS

# DVD 302

The **DVD 302** is a high-quality dual channel 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.

Each channel of the **DVD 302** provides 4 reclocked digital video serial 4:2:2. The **DVD 302** may be configurable on an alone serial reclocked distribution amplifier with 1 input to 8 outputs.

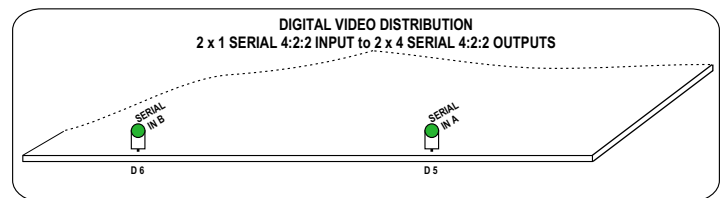
The **DVD 302** is designed on an "Europe" 3U electronic board.



Functional block diagram

### Features for each channel

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



Front edge of the board

## User Controls

### FRONT PANEL STATUS LEDs

- D 5 : Serial video detected on channel A
- D 6 : Serial video detected on channel B

## Technical Specifications

INPUTS	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 : 4 W

# DVD 302

## DIGITAL VIDEO RECLOCKED DISTRIBUTION AMPLIFIER DUAL CHANNEL 1 SERIAL 4:2:2 INPUT to 4 SERIAL 4:2:2 OUTPUTS

### Overall Performances

#### Serial 4:2:2 inputs

Standard :	SMPTE 259M-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 259M-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

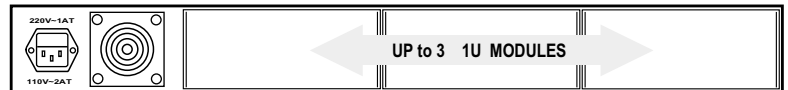
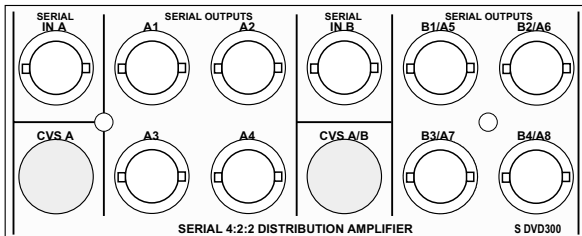
### Mounting Frames

#### 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.

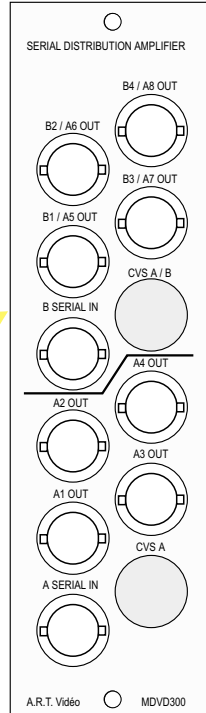
DIMENSIONS :	1RU x 380 mm deep	TEMPERATURE RANGE :	0-40°C	POWER INPUT RANGE :	97-240 V/50-60 Hz
WEIGHT :	< 5kg	ELECTRONIC PLUG-IN BOARDS :	up to 6	POWER :	80 W max

#### 1U MODULE REAR PANEL



DVD 302  
19" 1RU typical  
Configurations

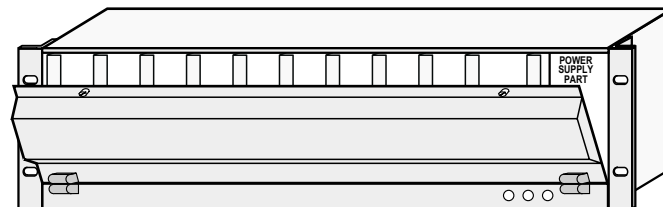
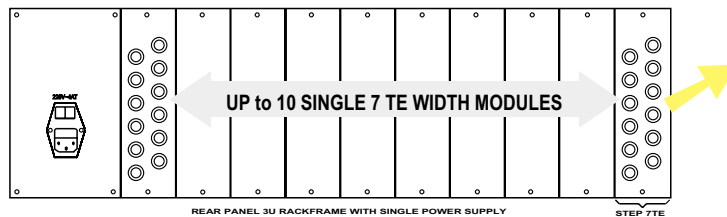
#### 3U MODULE REAR PANEL



#### 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

DVD302-S :	19" 1RU rackframe with 2 digital distribution amplifiers
DVD302-D :	19" 1RU rackframe with 4 digital distribution amplifiers
DVD302-T :	19" 1RU rackframe with 6 digital distribution amplifiers
B-DVD302 :	dual digital distribution amplifier electronic plug-in board

#### 19" 3RU rackframe

M-DVD302 :	dual digital distribution amplifier 3U module for 19" 3RU rackframe (Electronic plug-in board and rear panel)
B-DVD302 :	dual 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