



The **ARTS/DRTS** critical path change-over switchers give the user the ability to maintain signal flow when the unit is inserted into critical signal or program paths. Available in either analog video and audio (ARTS) or SDI video and AES audio (DRTS), these full-featured A/B change-over switchers include signal presence detection which enables 'A' to 'B' change-over switching. Change-over facilities are included for four audio channels and five GPI inputs, together with power supply health, A/B switch status, and input signal monitoring.

Change-over is accomplished automatically in the event of loss of the 'A' signal, manually at the front panel, or from a remote dry contact.

All modules are accessible from the front of the unit and hot swappable. By simply exchanging the main signal processor board the user changes from analog to SDI/AES operation or vice versa.

Housed in a 1RU frame, the ARTS/DRTS is designed for use in any critical path application requiring the backing up of source signal from satellite receiver feeds, transmitter inputs, or mirrored play-out machine.

ARTS/DRTS Critical Path Changeover Switchers

FEATURES:

- **Video presence detectors on both A and B inputs**
- **Buffered looping analog video inputs (ARTS)**
- **Balanced audio inputs and outputs (ARTS)**
- **Audio presence detector on both A and B inputs (DRTS)**
- **Internal audio and video D-to-A's allowing for analog monitoring of inputs (DRTS)**
- **Automatic, manual, or remote change-over operation**
- **Automatic revert to A input on return of power**
- **Optional redundant power supply**

We take your success personally

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ARTS-201 Analog Switcher Specifications:

Video Inputs:

Number	2, A and B
Impedance	>100KΩ, bridging to 75Ω
Common Mode Rejection (CMRR)	>70dB
Return loss	>46dB @ 5MHz
Level	1V p-p nominal, 2V max.
Maximum level, (differential)	±2V

Video Outputs:

Number	2
Return loss	>35dB @ 5MHz
Level	1V p-p nominal, 2V max.
Horizontal Tilt	0%, DC coupled
Vertical Tilt	0%, DC coupled
Differential gain	<0.2%, 10 to 90% APL @ 3.58MHz
Differential phase	<0.2°, 10 to 90% APL @ 3.58MHz
Chrominance/luminance delay	<±5ns
Hum	<1mV
Signal to noise ratio	>70dB weighted to 20MHz
Crosstalk	>-60dB @ 5MHz
Response, minimum equalization	<±0.05dB to 5MHz <±.2dB to 10 MHz +0 to -1dB @ 20MHz
Response, maximum equalization (max. of 100 meters 1505A or 8281 coax)	<±0.05dB to 5MHz <±0.2dB to 10MHz +0 to -1dB @ 20KHz
Differential delay	<0.5° @ 3.58MHz
DC offset	<±50mV

DRTS-201 Digital Switcher Specifications:

Video Inputs:

Number	2, A and B
Impedance	75Ω terminating
Level	800mV ±10mV
Signal Data Rate	270Mb
Equalization	>300 meters of Belden 8281

Video Outputs:

Number	2, 75Ω
Signal Level	800mV ±10mV
Monitor Output	2 analog, A and B
Impedance	75Ω
Level	1V p-p nominal

General Specifications:

Power:	115/230VAC, 50/60Hz, 24VA max.
Compliance:	UL/CE
Dimensions:	1.75" x 19" x 8" (4.4 x 48.5 x 20.5 cm)
Weight:	7lbs (3.2Kg.)
Operating Temp:	0 – 40°C
Humidity:	90% non-condensing

Audio Inputs:

Number	8 (4 primary, 4 backup)
Impedance	>100K
Input type	Balanced
Common Mode Rejection (CMRR)	>70dB
Maximum level	+22dBu

Audio Outputs:

Number	4
Output type	Balanced
Impedance	<10Ω
Maximum level	+22dBu
Gain	Unity, ±6dB by internal adjustment
Total Harmonic Distortion (THD)	<0.02% 20Hz – 20KHz @+22dBu
Intermodulation Distortion (IMD)	<0.02% 4:1 SMPTE
Response	<±0.1dB, 20Hz to 20KHz +0, -0.2dB @ 100KHz
Crosstalk	>-80dB referenced to 0dBu
Signal to noise ratio	>-86dB referenced to 0dBu

GPI I/O:

Connector type	9 pin D
Contact closure current	0.5 amp maximum

Remote Control:

Connector type	9 pin D, female
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Audio Inputs:

Number	8 (4 primary, 4 backup)
Impedance	110/75Ω jumper selectable
Input type	Balanced, differential
Level	Jumper select for AES3 or AES3id

Audio Outputs:

Number	4 AES
Output type	Balanced
Impedance	110Ω
Gain	Unity
Monitor Output	4 analog (2 primary, 2 backup)
Impedance	<10Ω
Max Level	+22dBu

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