



RJM & Associates, LLC
Broadcast Solutions

Data Sheet

ARTS-201B Critical Path Changeover Switchers



Key Features

- Critical Path Changeover Switcher
- Video presence detectors on both A and B inputs
- Buffered looping analog video inputs
- Balanced audio inputs and outputs
- Automatic, manual, or remote change-over operation
- Automatic revert to A input in case of AC power loss
- Optional redundant power supply

The ARTS protection/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 as analog video and audio, this 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 momentary dry contact.

All modules are accessible from the front of the unit and hot swappable.

Housed in a 1RU frame, the ARTS 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-201B Critical Path Changeover Switchers

ARTS-201B Specifications	
Video Inputs:	
Number	2, (A and B)
Impedance	>100K Ω , bridging to 75 Ω
Common Mode Rejection (CMRR)	>70dB
Return loss	>46dB @ 5MHz
Level	1V p-p nominal, 2V max.
Maximum level, (differential)	\pm 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 $^\circ$, 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 <+0.2dB 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 $^\circ$ @ 3.58MHz
DC offset	<+50mV
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 $^\circ$ c
Humidity:	90% non-condensing

Specifications	
Audio Inputs:	
Number	8, (4 A and 4 B)
Impedance	>100K
Input type	Balanced
Common Mode Rejection (CMRR)	>70dB
Maximum level	+22dBu
Audio Outputs:	
Number	4
Output type	Balanced
Impedance	<10 Ω
Maximum level	+22dBu
Gain	Unity, \pm 6dB by internal adjustment
Total Harmonic Distortion (THD)	<0.02% 20Hz – 20KHz @ +22dBu
Intermodulation Distortion (IMD)	<0.02% 4:1 SMPTE
Response	< \pm 0.1dB, 20Hz to 20KHz +0, -0.2dB @ 100KHz
Crosstalk	>-80dB referenced to 0dBu
Signal to noise ratio	>-86dB referenced to 0dBu
GPI Interface:	
Connector type	9 pin D
Contact closure current	0.5 amp maximum
Remote Control:	
Connector type	9 pin D, female

Your local RJM & Associates Distributor: