

MF-800 Series 2 x 1 Switching System



The **MF-800 Series** of 2x1 switching modules offers systems designers and integrators an economical way of dealing with situations where bypass or transfer switching is a necessary system requirement.

This series is comprised of a 2RU rack-mounting frame with internal power supply, local control panel, optional redundant power supply, and three types of 2x1 switching modules. An optional remote control panel may be added for greater flexibility of control functionality.

The 2RU frame houses any mix of up to 8 of the 2x1 switching modules and main power supply or up to 7 of the 2x1 switching modules with the redundant power supply installed.

The DV-800 2x1 module uses a coaxial relay as the switching element and is therefore able to switch analog or SDI signals. The TW-422 module can be used to switch RS422/RS485 data or AES/EBU digital audio signals. I/O on the TW-422 is via 9 pin 'D' connectors. The third module in the series, the DAS-21 offers 2x1 switching of analog stereo audio signals, I/O is balanced and connection is made via compression connectors.

FEATURES:

- **Mix and match modules to suit the application.**
- **Switch analog or SDI signals using the DV-800 module.**
- **Switch RS422/RS485 or AES/EBU audio using the TW-422 module.**
- **Switch analog stereo audio using the DAS-21 module.**
- **User selectable, ganged or separate module switching.**
- **Redundant power supply available.**
- **Remote control panel available.**

We take your success personally

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MF-800 SERIES
2 x 1 Switching Modules

DV-800
2 x 1 Digital or Analog Video Switcher

Input:	
Number	2
Type	Terminating with $75\Omega \pm 0.1\%$ in "OFF" position
Return loss	>15dB @ 1GHz
Output:	
Type	Feed-through, 75Ω
Response	DC to 1GHz
Insertion loss	<0.5dB @ 1GHz
Isolation between inputs	>65dB @ 1GHz
Relay mechanical life	5 x 10 ⁶
Tally current output	20mA max.
Connectors	BNC, 75Ω
Power requirements:	+15VDC, 50mA max.

TW-422
2 x 1 RS-422 or AES/EBU Switcher

Input:	
Number	2 groups of 8
Type	Non-terminating
Outputs:	
Number	1 group of 8
Type	Feed-through from input selected
Relay mechanical life	>10x8
Tally current output	20mA max.
Connectors	9 pin D female
Power requirements	+15VDC, 50mA max.

Your local ISIS Group Distributor:

DAS-21
2 x 1 Stereo Analog Audio Switcher

Input:	
Number	2, Left and Right, Stereo
Type	Differential, balanced or unbalanced
Impedance	>24k Ω balanced, >12k Ω unbalanced
Level	+24dBu max., +8dBu nominal
Common mode rejection (CMRR)	>75dB, 20Hz to 20KHz
Outputs:	
Type	Balanced around ground
Impedance	24.4 Ω each leg (54.8 Ω balanced)
Level	24dBu max., +8dBu nominal
Gain	Unity, ± 6 dB by internal adjustment
Response	± 0.1 dB, 20Hz to 20KHz @ 24dBu
Total Harmonic Distortion (THD)	<0.05% 20Hz to 20KHz @ 24dBu
Signal to noise ratio	>100dB ref. max. output
Crosstalk	>-85dB
Tally current output	20mA max.
Connectors	Clamp-type barrier strip on 3.5mm centers
Power requirements	± 15 VDC 70mA max.

Electrical/Physical/Environmental

PS-800 Primary Power Supply:

Input	115/230VAC 50/60 Hz 24 VA voltage range selected by internal jumpers
Output	± 15 VDC 500mA
Fuse	0.5 amp
Remote control connector:	25 pin D female
Dimensions:	3.5" x 19" x 12" (8.8 x 48.5 x 31 cm)
Weight:	12 lbs (5.5 Kg.)
Operating Temperature:	0 – 40° C
Humidity	90% non-condensing