

SPECIFICATION SHEET

JFW MODEL 50MS-335

MATRIX SWITCH

JFW Industries, Inc.
Phone: 317-887-1340
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www.jfwindustries.com

Frequency Range	700-3000 MHz
Configuration	8 x 16 Non-Blocking Solid-State Matrix Switch (See block diagram 092-8363) (Unused input ports are self-terminating) (Unused output ports are self-terminating) (all ports are bi-directional) (the ADMIN password is located on rear panel)
Startup/Default States (configurable)	All ports off at startup (see MATRIX command) DHCP enabled (see NET command) 4 Ethernet users (see NET command) Prompts off (see PROMPT command) All of these default settings can be changed by user. Unit can be configured for up to 12 Ethernet users.
Enclosure Type	19 inch rack mount @ 6RU high
Impedance	50 Ohms nominal
VSWR	1.5:1 typical 1.8:1 maximum
Insertion Loss	15.5 dB typical @ 700MHz 18.5 dB typical @ 3000MHz
Isolation	Output to Output - 30 dB typical (Set to same input) - 25 dB minimum Output to Output (Set to diff inputs) - 90 dB typical - 60 dB minimum Input to Output - 90 dB typical - 60 dB minimum Input to Input - 70 dB typical - 60 dB minimum
RF Input Power	+20 dBm average +27 dBm (no damage)
Switching Speed	20 microseconds (after command is received and processed) (3 milliseconds typical processing time)
Remote Control	Ethernet (DHCP, TCP/IP, 10/100, up to 12 users) RS-232 (up to 115200 Baud)

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Manual Control

20-Button Keypad and LCD display
(IP Address configurable via keypad)
(Net mask configurable via keypad)
(Gateway configurable via keypad)
(Baud rate configurable via keypad)

Remote Commands

Matrix Commands:
Matrix, Set Input, Set Output, Read Input, Read
Output, Read All Inputs, Read All Outputs, Read Matrix
Paths

System Commands:
Help, Identification, Store, Recall, Pause, Net,
Serial, Close, Disconnect, MOTD, Date, Message,
Restrict, IDENT, Name, Show Users, Reboot, Uptime,
Prompt

RF Connector

N or SMA female

AC Supply

100-240 VAC @ 47-63 Hz
2 Amp 5x20mm "Slo-Blo" AC fuse
Littelfuse #215-002, JFW #025-021

Temperature Ranges

Operating: 0°C to +70°C
Storage: -55°C to +85°C

Physical Size

See outline drawing 092-8167

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	11/19/2014		BAC 11/19/2014				
25550	07/14/2015	A	TRS 07/14/2015				
30909	01/28/2021	B	TRS 01/28/2021				