

**SPECIFICATION SHEET**  
**JFW MODEL 50MS-304**  
**SOLID STATE MATRIX SWITCH**

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

Frequency Range	2-6 GHz
Configuration	6 x 6 Non-Blocking Matrix (See block diagram 092-7408) (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 @ 5RU high
Impedance	50 Ohms nominal
VSWR	1.5:1 typical 1.7:1 maximum
Insertion Loss	16.5 dB nominal @ 2GHz 18.5 dB nominal @ 6GHz
Isolation	Input to Input - 70 dB minimum Input to Output - 70 dB minimum Output to Output - 18 dB minimum (If connected to same Input) Output to Output - 70 dB minimum (If connected to different Inputs)
RF Input Power	+20 dBm maximum
Switching Speed	1 microsecond (After command is received and processed) (3 millisecond typical processing time)
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 Control	Ethernet (DHCP, TCP/IP, 10/100, up to 12 users) RS-232 (up to 115200 Baud)

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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 Connectors

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 092-7407



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	07/23/2012		BAC 07/23/2012				
24239	07/15/2015	A	TRS 07/15/2015				