

**SPECIFICATION SHEET**

**JFW MODEL 50MS-288**

**MATRIX SWITCH**

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

Frequency Range	20-1000 MHz
Configuration	8 x 8 Non-Blocking Solid-State Matrix Switch (See block diagram 092-2886) (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	1.4:1 typical / 1.6:1 maximum
Insertion Loss	13dB typical @ 20MHz 14dB typical @ 1000MHz 15dB maximum 20-1000MHz
Isolation	Output to Output - 30 dB typical (Set to same input) - 20 dB minimum  Output to Output (Set to diff inputs) - 90 dB typical - 70 dB minimum  Input to Output - 90 dB typical - 70 dB minimum  Input to Input - 90 dB typical - 70 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)
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)

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Remote Control Ethernet (DHCP, TCP/IP, 10/100, up to 12 users)  
RS-232 (up to 115200 Baud)

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

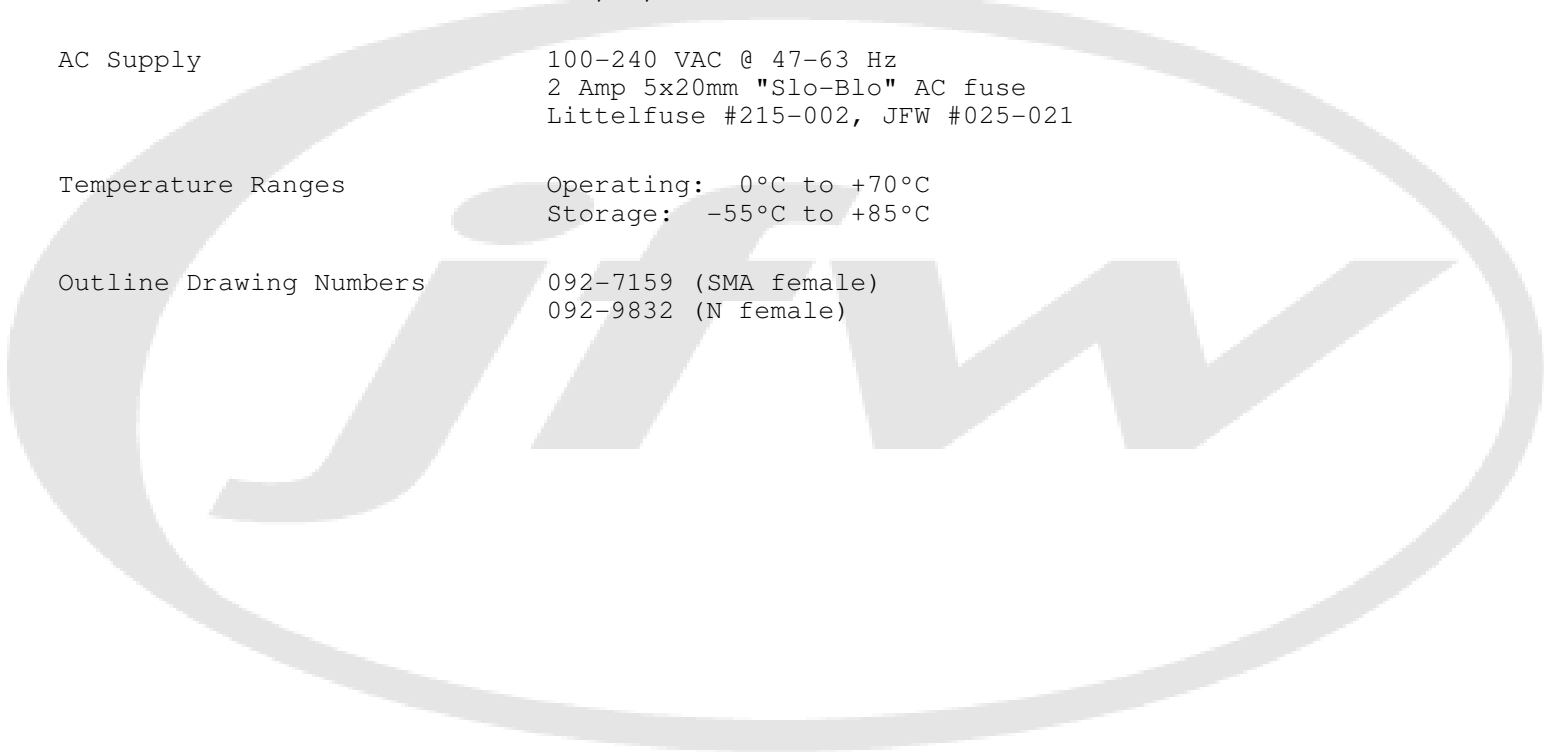
System Commands:  
Help, Identification, Store, Recall, Pause, Net, Serial, Close, Disconnect, MOTD, Date, Message, Restrict, IDENT, Name, Show Users, Reboot, Uptime, Prompt

RF Connector BNC, N, SMA or TNC 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

Outline Drawing Numbers 092-7159 (SMA female)  
092-9832 (N female)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	12/02/2011		BAC 12/02/2011				
24239	07/15/2015	A	TRS 07/15/2015				
31570	01/31/2022	B	TRS 01/31/2022				