

**SPECIFICATION SHEET**

**JFW MODEL 50MS-286**

**MATRIX SWITCH**

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

Frequency Range	DC-6 GHz
Configuration*	12 x 4 Blocking Matrix (See block diagram 092-7081) (Maximum of 4 Active RF Paths) (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 @ 7RU high
Impedance	50 Ohms nominal
VSWR	1.2:1 typical DC-2 GHz 1.3:1 typical 2-4 GHz 1.4:1 typical 4-6 GHz  1.5:1 maximum DC-2 GHz 1.6:1 maximum 2-4 GHz 1.7:1 maximum 4-6 GHz
Insertion Loss	2.5 dB typical @ 6 GHz 3.0 dB maximum DC-6 GHz
Isolation	Input to Input - 65 dB minimum Input to Output - 65 dB minimum Output to Output - 65 dB minimum
RF Input Power	+30 dBm average (Hot Switched)
Switching Speed	20 milliseconds
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 Connector

SMA female

AC Supply

100-240 VAC @ 47-63 Hz  
4 Amp 5x20mm "Slo-Blo" AC fuse  
Littelfuse #215-004, JFW #025-018

Temperature Range

0°C to +50°C

Physical Size

See outline drawing 092-7080

\* This unit switches all input and output ports to internal 1 Watt terminations if AC power is lost.

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	09/14/2011		BAC 09/14/2011				
21887	09/06/2012	A	TRS 09/06/2012				
24239	07/15/2015	B	TRS 07/15/2015				