

**SPECIFICATION SHEET**

**JFW MODEL 75MS-040**

**MATRIX SWITCH**

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

Frequency Range	5-2150 MHz
Configuration	4 x 4 Non-Blocking Solid-State Matrix Switch (Unused input ports are self-terminating) (Unused output ports are self-terminating) (All ports are bi-directional) (See Block Diagram 092-7494)
Startup/Default States (configurable)	ALL PATHS OFF (see MATRIX command/STARTUP keyword) DHCP enabled (see NET command) 4 Ethernet users (see NET USERS command) Prompts off (see PROMPT command)
Impedance	75 Ohms nominal
VSWR	1.5:1 typical / 1.9:1 maximum
Insertion Loss	13 dB typical
Isolation	Input to input: 60 dB minimum  Input to output: 60 dB minimum  Output to output w/ different inputs: 60 dB minimum  Output to output w/ same inputs: 20 dB minimum 5-1000 MHz 18 dB minimum 1000-2150 MHz
RF Input Power	+10 dBm 5-100MHz +20 dBm 100-2150MHz
Switching Speed	20 microseconds (after command is received and processed) (3 milliseconds typical processing time)
Remote Control	Ethernet (DHCP, 10/100, TCP/IP, up to users) RS-232 (Up to 115200 baud)
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 Command Format

Matrix Control Commands:

Set Input, Set Output, Read Input, Read Output

System Commands:

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

RF Connectors

F female

Operating Temperature Range

0° to +70°C

AC Supply

100-240 VAC @ 47-63 Hz

Physical Size

See outline drawing 092-9792



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	10/12/2017		TRS 10/12/2017				
31395	10/21/2021	A	TRS 10/21/2021				
31634	02/28/2022	B	TRS 02/28/2022				