

**SPECIFICATION SHEET**  
**JFW MODEL 50MS-437**  
**SOLID STATE MATRIX SWITCH**

JFW Industries, Inc.  
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Frequency Range	1-18 GHz
Configuration	8 x 8 Non-Blocking Solid-State Matrix (See block diagram 092-2886) (Unused input ports are self-terminating) (Unused output ports are reflective) (all ports are bi-directional) (the ADMIN password is located on rear panel)
Enclosure Type	19 inch rack mount @ 6RU high
Impedance	50 Ohms nominal
VSWR	2.5:1 maximum 1.8:1 typical
Insertion Loss	22.2 dB maximum 19.8 dB typical @ 18 GHz
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	+30 dBm (IN ports) +27 dBm (OUT ports)
Switching Speed	100 nanoseconds (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

## 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.

## RF Connectors

N female or SMA female

## AC Supply

100-240 VAC @ 47-63 Hz

## Operating Temperature Range

0°C to +50°C

## Physical Size

See outline drawing 092-9967

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	10/31/2022		TRS 10/31/2022				