

**SPECIFICATION SHEET**

**JFW MODEL 50MS-436**

**SOLID STATE MATRIX SWITCH**

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

Frequency Range 1-18 GHz

Configuration 4 x 8 Non-Blocking Matrix  
(See block diagram 092-7876)  
(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 @ 3RU high

Impedance 50 Ohms nominal

VSWR 2.5:1 maximum  
1.8:1 typical

Insertion Loss 20.5 dB maximum  
18.3 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)

**--CONTINUED--**

**SPECIFICATION SHEET**

**JFW MODEL 50MS-436**

**SOLID STATE MATRIX SWITCH**

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

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 092-9966

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