

SPECIFICATION SHEET

JFW MODEL 50MS-435

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 6 Non-Blocking Solid-State Matrix (See block diagram 092-9965) (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) |

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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 092-9964

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