## SPECIFICATION SHEET JFW MODEL 50MS-421 MATRIX SWITCH

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

Frequency Range 20-1000 MHz

Configuration 8 x 8 Blocking Solid-State Matrix Switch

(See block diagram 092-9492)

(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)

Enclosure Type 19 inch rack mount @ 6 RU high

Impedance 50 Ohms nominal

VSWR 1.6:1 typical 1.8:1 maximum

Insertion Loss

3.7 dB typical @ 20 MHz
4.8 dB typical @ 1000 MHz
6.0 dB maximum 20-1000MHz

Isolation Output to Output: 90 dB typical

75 dB minimum

Input to Output: 90 dB typical

75 dB minimum

Input to Input: 90 dB typical

75 dB minimum

RF Input Power +20 dBm average +27 dBm (no damage)

Switching Speed 20 microseconds

(after command is received and processed)
(3 milliseconds 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 SMA, BNC or N female

AC Supply 100-240 VAC @ 47-63 Hz

0.50 Amps @ 120 VAC nominal 0.25 Amps @ 240 VAC nominal 2 Amp 5x20mm "Slo-Blo" AC fuse Littelfuse #215-002, JFW #025-021

Temperature Ranges Operating: 0°C to +70°C

Storage: -55°C to +85°C

Outline Drawing Numbers 092-9586 (SMA female) 092-9831 (N female)

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