

SPECIFICATION SHEET

JFW MODEL 50MS-420

MATRIX SWITCH

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

Frequency Range	20-3000 MHz
Configuration	16 x 16 Non-Blocking Solid-State Matrix Switch (See block diagram 092-9779) (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 @ 7RU high
Impedance	50 Ohms nominal
VSWR	1.9:1 maximum 1.5:1 typical (input ports) 1.7:1 typical (output ports)
Insertion Loss	16.9 dB typical @ 20 MHz 20.7 dB typical @ 3000 MHz
Isolation	Output to Output - 25 dB typical (Set to same input) - 21 dB minimum Output to Output (Set to diff inputs) - 90 dB typical - 60 dB minimum Input to Output - 90 dB typical - 60 dB minimum Input to Input - 70 dB typical - 60 dB minimum
RF Input Power	+30 dBm 20-3000 MHz (input ports) +20 dBm 20-100 MHz (output ports) +30 dBm 100-3000 MHz (output ports)
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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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.

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

RF Connector

N female or SMA female

AC Supply

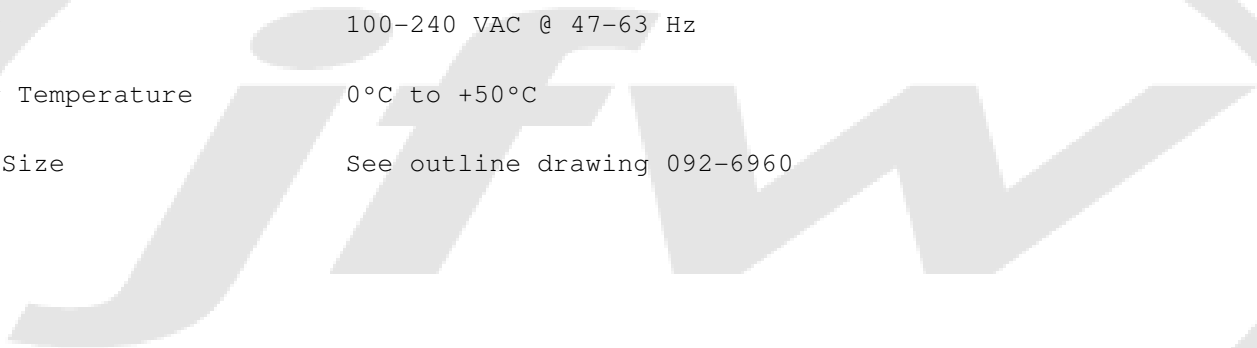
100-240 VAC @ 47-63 Hz

Operating Temperature

0°C to +50°C

Physical Size

See outline drawing 092-6960



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	08/26/2021		TRS 08/26/2021				