

SPECIFICATION SHEET

JFW MODEL 50MS-423

MATRIX SWITCH

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

Frequency Range	700-4000 MHz
Configuration	24 x 12 Non-Blocking Solid-State Matrix Switch (see block diagram 092-9804) (Unused Inputs are terminated in 50 Ohms) (Unused Outputs are terminated in 50 Ohms)
Startup/Default States (configurable)	All Ports OFF (see MATRIX STARTUP command) DHCP enabled (see NET command) 4 Ethernet users (see NET USERS command) Prompts off (see PROMPT command)
Impedance	50 Ohms nominal
VSWR	1.9:1 maximum 1.6:1 typical
Insertion Loss	24.5 dB typical
Isolation	Output to Output (Set to same input) - 30 dB typical - 25 dB minimum Output to Output (Set to diff inputs) - 90 dB typical - 60 dB minimum Input to Output - 90 dB typical - 55 dB minimum Input to Input - 70 dB typical - 55 dB minimum
RF Input Power	+30 dBm (IN ports) +23 dBm (OUT 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)
Control (Remote)	Ethernet (DHCP, TCP/IP, 10/100, up to 12 users) RS-232 (up to 115200 Baud)

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Remote Commands

Matrix Commands:
Set Output, Read Output, Read All Outputs

System Commands:
Help, Identification, Store, Recall, Pause,
Net, Serial, Close, Disconnect, MOTD,
Date, Message, Restrict, IDENT, Name, Show Users, Reboot,
Uptime, Prompt

RF Connector

SMA female

AC Supply

100-240 VAC @ 47-63 Hz

Operating Temperature Range

0°C to +50°C

Physical Size

See outline drawing 092-9803



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	11/04/2021		TRS 11/04/2021				