

SPECIFICATION SHEET

JFW MODEL 50MS-403

MATRIX SWITCH

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

Frequency Range	20-3000 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	4.0 dB typical @ 20 MHz 4.5 dB typical @ 1000 MHz 5.5 dB typical @ 3000 MHz 6.5 dB maximum 20-3000MHz
Isolation	Output to Output: 80 dB typical 60 dB minimum Input to Output: 80 dB typical 60 dB minimum Input to Input: 80 dB typical 60 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 Connector

N female or SMA 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)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	07/21/2020		BAC 07/21/2020				
30569	07/30/2020	A	BAC 07/30/2020				
31568	01/31/2022	B	TRS 01/31/2022				