

**SPECIFICATION SHEET**

**JFW MODEL 75MS-037**

**MATRIX SWITCH**

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

Frequency Range DC-1700 MHz

Configuration 2 x 12 Blocking Electro-Mechanical Matrix Switch  
(Current setting displayed via LED indicators)  
(Unused input ports are terminated)  
(Unused output ports are terminated)  
(See Block Diagram 092-8837)

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.

Enclosure Type 19 inch rack mount @ 5RU high

Impedance 75 Ohms nominal

RF Connectors Model 75MS-037 N/F: 75 Ohm F female (OUT ports)  
75 Ohm N female (IN ports)  
Model 75MS-037 F: 75 Ohm F female (OUT ports)  
75 Ohm F female (IN ports)

Remote Control Ethernet (DHCP, 10/100, TCP/IP, up to users)  
RS-232 (Up to 115200 baud)

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 Command Format Matrix Control Commands:  
Set Input, Set Output, Read Input, Read Output

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

Return Loss DC-1218MHz:  
22dB typical / 18 dB minimum

1218-1700MHz:  
15dB typical / 14 dB minimum

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Insertion Loss                    1.1 dB nominal @ 1218MHz  
                                       2.0 dB maximum DC-1218MHz

                                      1.75 dB nominal @ 1700MHz  
                                       2.50 dB maximum 1218-1700MHz

Isolation                            DC-1218MHz:  
                                       90 dB typical (Input to Input)  
                                       70 dB minimum (Input to Input)

                                      90 dB typical (Input to Output)  
                                       70 dB minimum (Input to Output)

                                      90 dB typical (Output to Output)  
                                       70 dB minimum (Output to Output)

                                      1218-1700MHz:  
                                       70 dB typical (Input to Input)  
                                       60 dB minimum (Input to Input)

                                      70 dB typical (Input to Output)  
                                       60 dB minimum (Input to Output)

                                      70 dB typical (Output to Output)  
                                       60 dB minimum (Output to Output)

RF Input Power                    +27 dBm maximum

Switching Speed                    10 milliseconds  
                                       (after command is received and processed)  
                                       (3 milliseconds typical processing time)

AC Supply                            100-240VAC @ 47-63 Hz

Operating Temperature Range    0° to +70°C

Physical Size                        See outline drawing 092-8836

| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE | REV | APPR / DATE |
|-----------|------------|-----|----------------|-----------|------|-----|-------------|
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