

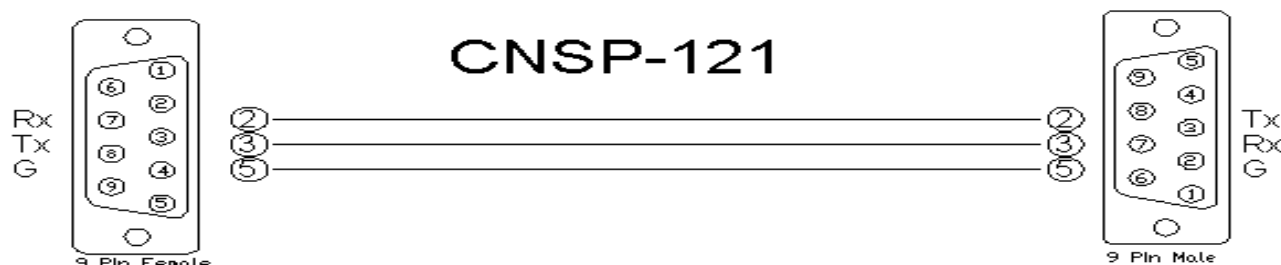
Partner: Key Digital
Model: KD-MSW8x4
Device Type: Digital Video Processor
and Video/Audio Switcher



GENERAL INFORMATION

| | |
|------------------------------------|--|
| SIMPLWINDOWS NAME: | Key Digital KD-MSW8x4.umc |
| CATEGORY: | Video Processor and Switcher |
| VERSION: | 1.0 |
| SUMMARY: | This module contains the RS-232 commands to interface with a FAT BOY Series Key Digital KD-MSW8x4. |
| GENERAL NOTES: | <p>Besides remote control with real-time feedback over RS-232 through a Crestron processor and Touch Panel, you can remotely control the Key Digital KD-MSW8x4 functions through the rear – panel RS-232 connector, using Crestron’s Toolbox in console mode or by using Hyper Terminal or other compatible interface. Set your RS-232 connection to 4,800 baud, 8 data bits, 1 stop bit, and no parity. When creating command strings, make sure to insert sufficient time delays before each command. Test all of your command strings to determine the proper time delay between commands. To input a number, there must be a blank space between operator and operand. After you change video source to Key Digital KD-MSW8x4 using an 'CCxy' command, you need to wait for 5 seconds before sending another RS-232 command. Whenever the video mode changes, the video processor needs to be initialized. During initialization, the CPU doesn't listen to the RS-232 port.</p> <p>Pressing factory defaults button will reset unit’s memory. Inputs for every output will be 1, unit address will be 16, video mute interval will be 240 ms and all video mutes will be disabled (unmated). Address 16 uses CC commands. If you change the address of the unit by CCA01-15 command, you will need to change all “CC” serial strings in the SIO symbol of the module to the actual address number of the unit (“CC41” would become “1241” if unit id was 12). In this way, you could write codes to control multiple units with one Crestron control system on different com ports.</p> <p>After each button press except factory default, the real feedback is displayed. In addition, the unit may be polled for real feedback every 15 seconds by default by putting a “1” on the Poll_Enable signal name.</p> |
| CRESTRON HARDWARE REQUIRED: | Series-2 Processor and/or X-generation Processor and C2I-COM, ST-COM |
| SETUP OF CRESTRON HARDWARE: | RS232 Baud: 4,800 Parity: N Data Bits: 8 Stop Bits: 1 |
| VENDOR FIRMWARE: | Unknown |
| VENDOR SETUP: | None |
| CABLE DIAGRAM: | CNSP-121 |

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CONTROL:

| | | |
|----------------------|---|--|
| To_Device\$ | S | The serial string sent to the unit |
| Input_x_y | D | Pulse to switch Video/Audio Input y to Output x |
| Video_Format_RGBHV | D | Pulse to switch Video Format to RGBHV |
| Video_Format_YPbPr | D | Pulse to switch Video Format to YPbPr |
| Front_Panel_Enable | D | Pulse to enable front panel buttons |
| Front_Panel_Disable | D | Pulse to disable front panel buttons |
| IR_Enable | D | Pulse to enable IR remote buttons |
| IR_Disable | D | Pulse to disable IR remote buttons |
| Factory_Defaults | D | Pulse to set to factory defaults |
| Video_Mute_x_Enable | D | Pulse to set each of the 4 outputs to be Video muted. If x = 5, all outputs will be muted. Note: Mute 5 is All |
| Video_Mute_x_Disable | D | Pulse to set each of the 4 outputs to be Video unmuted. If x = 5, all outputs will be unmuted. Note: Mute 5 is All |
| Video_Fade_No_Mute | D | Pulse to set Video fade time to no mute |
| Video_Fade_x_ms | D | Pulse to set Video fade time to x where x = 28 ms, 40 ms, 80ms, 120 ms, 160 ms, 240 ms, 320 ms, 400 ms, and 600 ms |

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Poll_Enable

D

Enables polling of the status to the unit for monitoring changes at the unit in real-time (set to every 15 seconds in the module) Put a zero here to inhibit polling if unit is never going to be switched manually in the rack. Serial Pace Time defaults to .26 seconds. Place a 1 here to poll the unit for status. **Note:** Most of the time polling is *unnecessary* because unit sends back a discrete status code for every command sent when pressed from a button or sequence.

FEEDBACK:

| | | |
|-------------------------|---|--|
| From_Device\$ | S | The serial return string from the unit |
| Input_x_y_Fb | D | Displays status of Video/Audio Input y to Output x |
| Video_Format_RGBHV_Fb | D | Displays status Video Format is set to RGBHV |
| Video_Format_YpbPr_Fb | D | Displays status Video Format is set to YPbPr |
| Front_Panel_Enable_Fb | D | Displays status of Front Panel buttons enabled |
| Front_Panel_Disable_Fb | D | Displays status of Front Panel buttons disabled |
| IR_Enable_Fb | D | Displays status IR remote buttons enabled |
| IR_Disable_Fb | D | Displays status of IR remote buttons disabled |
| Video_Mute_x_Enable_Fb | D | Displays status of Video Mutes enabled (muted). Note: Mute 5 is All |
| Video_Mute_x_Disable_Fb | D | Displays status of Video Mutes disabled (unmuted). Note: Mute 5 is All |
| Video_Fade_No_Mute_Fb | D | Displays status of Video Mutes fade time of 0 |
| Video_Fade_x_ms_Fb | D | Displays status of Video Mutes fade time of x where x = 28 ms, 40 ms, 80ms, 120 ms, 160 ms, 240 ms, 320 ms, 400 ms, and 600 ms |

PARAMETERS:

poll time in seconds

P

Valid range for real-time polling of unit is 1s to 30s
Note: To inhibit polling put a zero on driving signal name Poll Enable

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**TESTING:****OPS USED FOR TESTING:**

PRO2 Cntrl Eng [v3.137 (Release)]

COMPILER USED FOR TESTING:

SIMPL 2.06.20 Compiler V. 2.00.34

SAMPLE PROGRAM:

Key Digital KD-MSW8x4 Demo

REVISION HISTORY:

V. 1.0