



TECHNOLOGY DISTRIBUTORS

TECHNICAL SHEET

Overview: Magenta Matrix switcher control

Just the Facts:

Assuming you have a switch with version 2.3 firmware, here's how to set up RS-485 addressable mode:

- 1) Set the switch to RS232 mode
- 2) Connect the switch to the PC Com port
- 3) Set the switch address via the A=xx command
- 4) Disconnect the serial port, power off switch, set the switch to addressable mode
- 5) Repeat 1-4 for each switch.

To send serial commands to the individual switches on the common bus, the switch address is sent as a single binary encoded byte (not ASCII) at the beginning of each command string (The Most Significant Bit must be set (bit 7 = 1), with bits 6:0 representing the address):

Address Prefix:

The address prefix byte shall be formatted as the binary address value (0x00 : 0x63)+ 0x80. The address byte shall not be formatted, nor interpreted as an ASCII character.

Examples:

- Hardware address = "01", address prefix = 0x81
- Hardware address = "99", address prefix = 0xE3

All command strings **must** be preceded by an address prefix byte when operating in addressable mode.

Notes:

1. All commands (except the address prefix byte) are "echoed" at the terminal prompt.
2. Any invalid command sequences will return an error prompt / string.
3. In addressable mode (RS-485 ONLY), each command string **must** be preceded by an address prefix byte.