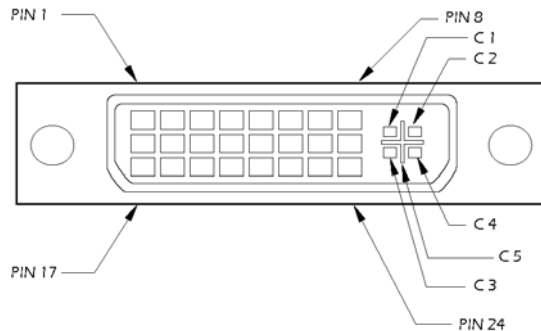


Technical Specifications

Video	
Video Amplifier Bandwidth	165 MHz
Input Video Signal	1.2 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Single Link Range	1080p/1920 x 1200
DVI Connector	DVI-I 29 pin female
Control	
Serial Controls	RS232, DB9 female connector
Power	
Power Supply	5VDC-3A
Physical	
Dimensions	12"W x 1.75"H x 7"D
Weight	4.05 lbs.



Pin #	Signal	Pin #	Signal
1	T.M.D.S Data 2-	16	Hot Plug Detect
2	T.M.D.S Data 2+	17	T.M.D.S Data 0-
3	T.M.D.S Data 2/4 Shield	18	T.M.D.S Data 0+
4	T.M.D.S Data 4-	19	T.M.D.S Data 0/5 Shield
5	T.M.D.S Data 4+	20	T.M.D.S Data 5-
6	DDC Clock	21	T.M.D.S Data 5+
7	DDC Data	22	T.M.D.S Clock Shield
8	Analog Vert. Sync	23	T.M.D.S Clock+
9	T.M.D.S Data 1-	24	T.M.D.S Clock -
10	T.M.D.S Data 1+		
11	T.M.D.S Data 1/3 Shield	C1	Analog Red
12	T.M.D.S Data 3-	C2	Analog Green
13	T.M.D.S Data 3+	C3	Analog Blue
14	+5V Power	C4	Analog Horz Sync
15	GND	C5	Analog Ground

© Copyright 2008 Smart-AVI, All Rights Reserved

Notice

The information contained in this document is subject to change without notice. Smart-AVI makes no warranty of any kind with regard to this material, including but not limited to, implied warranties of merchantability and fitness for any particular purpose.

Smart-AVI will not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance or use of this material.

No part of this document may be photocopied, reproduced or translated into another language without prior written consent from Smart-AVI.

For the complete manual, visit www.smartavi.com.

Smart-AVI
Smart Audio Video Innovation

User Manual

DVI Router 4x4



Display content from any four computers on any four screens independently.

Smart-AVI
2840 N. Naomi Ave.
Burbank, California 91504
Phone: (818) 565-0011
Facsimile: (818) 565-0020

www.smartavi.com

Introduction

Our non-blocking matrix switch provides an easy and dynamic approach to creating multiple computer stations, each having the ability of accessing any one of the CPU's or displays instantly, either directly or remotely using RS232 commands and infrared.

The SmartAVI DVI 4x4 router provides single-link DVI operation at the maximum TMDS rate of 2 x 1.65 Gb/sec. at resolutions up to 1920x1200. The DVI signals can be transmitted through 190 feet of copper at the maximum TMDS rate on both the input and output sides of the switch.

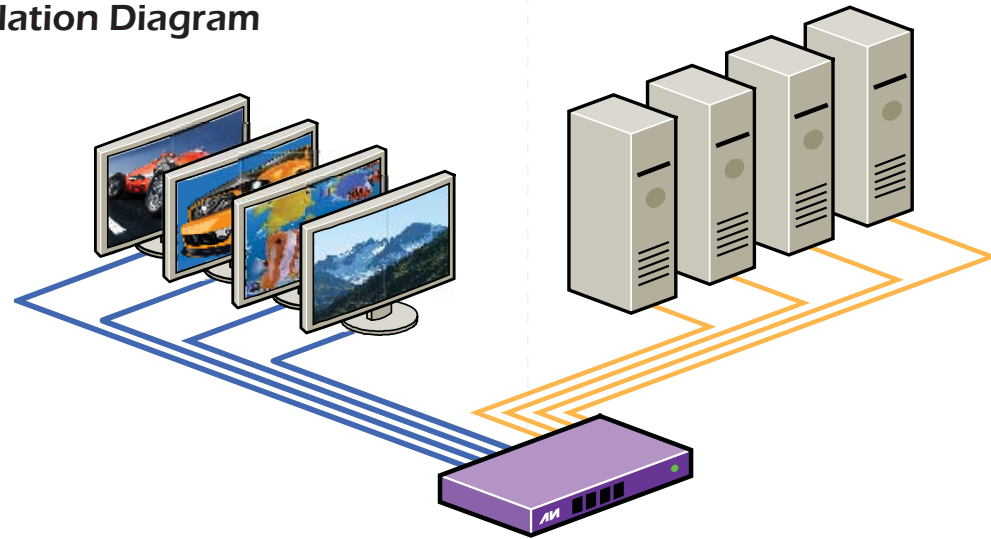
Features

- Increases your productivity by providing you with access to four computers from four workstations.
- 4x4 non-blocking, single-link DVI matrix switch.
- Supports DVI operation at the maximum TMDS rate of 2 x 1.65 Gb/s.
- Supports resolutions up to 1080p, 2K, and 1920 x 1200.
- Simultaneous 4x4 analog matrix switching at 380 MHz bandwidth.
- DVI transmission over 190 feet at the highest TMDS rate of 1.65 Gb/s.
- Control from either front panel or RS232.
- Available IR Remote.

What's in the box?

Description	Qty	Part Number
4x4 DVI Matrix	1	DVR4X4
5VDC 3A Power Supply	1	PS-5V3A-US

Installation Diagram



DVI 4x4 Router Installation Diagram

Setting up control computer

1. Install DVR 4x4 control software
2. Connect a serial cable from DV Router to computer

Connecting The DVI Router

1. Connect the DVI male extension cable between the PC's and the 'video in' port of the DVI router.
2. Connect the DVI male/female extension cables between the monitors and the "DVI out" ports of router.
3. Connect the power cord and turn on the router.
4. Turn on the PC's and monitors.

Switching Channels via RS232

To set a crosspoint with RS232 you will need to send the following command;

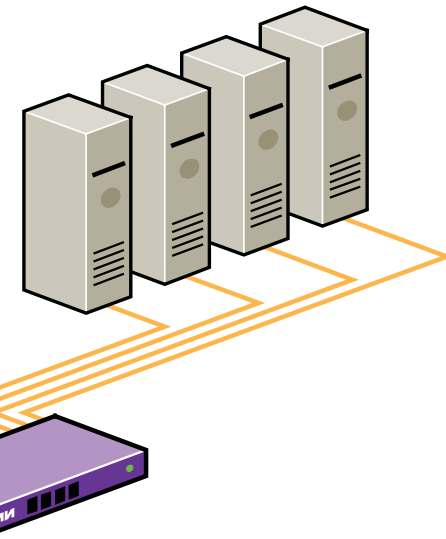
```
<CR>//Mxxlyy<CR>
```

Where xx after the M is the output (monitor) number and the yy after the I is the Input number 01-04.

If the command is accepted the router will acknowledge with <CR>

*<CR> = Carriage Return

Serial Port Setup	
Baud Rate	9600
Data Bits	8
Parity	None
Stop Bits	1



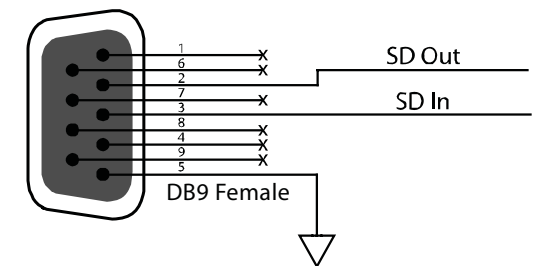
Front



Back



RS232 Connector Pinout



DB9 Cable Pin Numbers	
Router (female)	PC (male)
2	3
3	2
5	5