Technical Specifications
Input/Output Signal
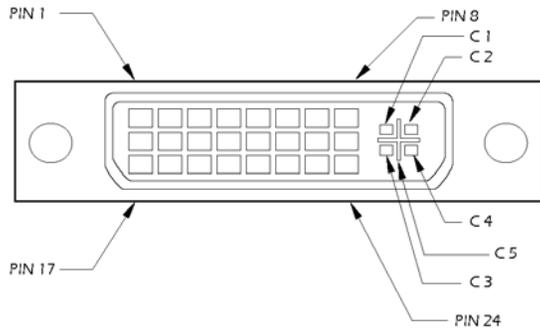
Pin #	Signal	Pin #	Signal
1	T.M.D.S Data 2-	16	Hot Plug Detect
2	T.M.D.S Data 2+	17	T.M.D.S Data 0-
3	T.M.D.S Data 2/4 Shield	18	T.M.D.S Data 0+
4	T.M.D.S Data 4-	19	T.M.D.S Data 0/5 Shield
5	T.M.D.S Data 4+	20	T.M.D.S Data 5-
6	DDC Clock	21	T.M.D.S Data 5+
7	DDC Data	22	T.M.D.S Clock Shield
8	Analog 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

Specifications

Video Input	1 DVI-I Female
Video Output	8 DVI-I Female
Max. Resolution	1920 x 1200 60 @ Hz
Cable Distance to Monitor	10 m (max)
Signal Type	Standard DVI Signal
Power Adapter (min)	5VDC 4A
Housing	Metal
Weight	2.40 lb (1.09kg)
Dimensions (LxWxH)	9.87" x 5.00" x 1.75"

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Smart-AVI
Smart Audio Video Integration

Quick Start Guide

DVS8P

Supporting tradional analogue VGA as well as digital DVI.

The DVI-I 8 port splitter allows you to use a single PC/MAC to display identical images on multiple monitors.

www.smartavi.com

Introduction

The DVS8P splitter allows you to use a single PC to display identical images on multiple monitors.

DVI Splitter is ideal for:

- Test bench facilities
- Data Center
- Help Desks

Features

- Use PanelLink digital technology
- Supports high-resolution dislplay up to UXGA (25-165MHz)
- Can be cascaded
- Compliant with the specification of DVI 1.0
- Resolution up to 1920 x 1200
- No degradation of video quality
- External pwer supply
- Automatic EDID learning for the support of any DVI monitor.
- DVI and VGA

Package Contents

- 1 DVS8P 8Port DVI splitter
- 1 User Manual
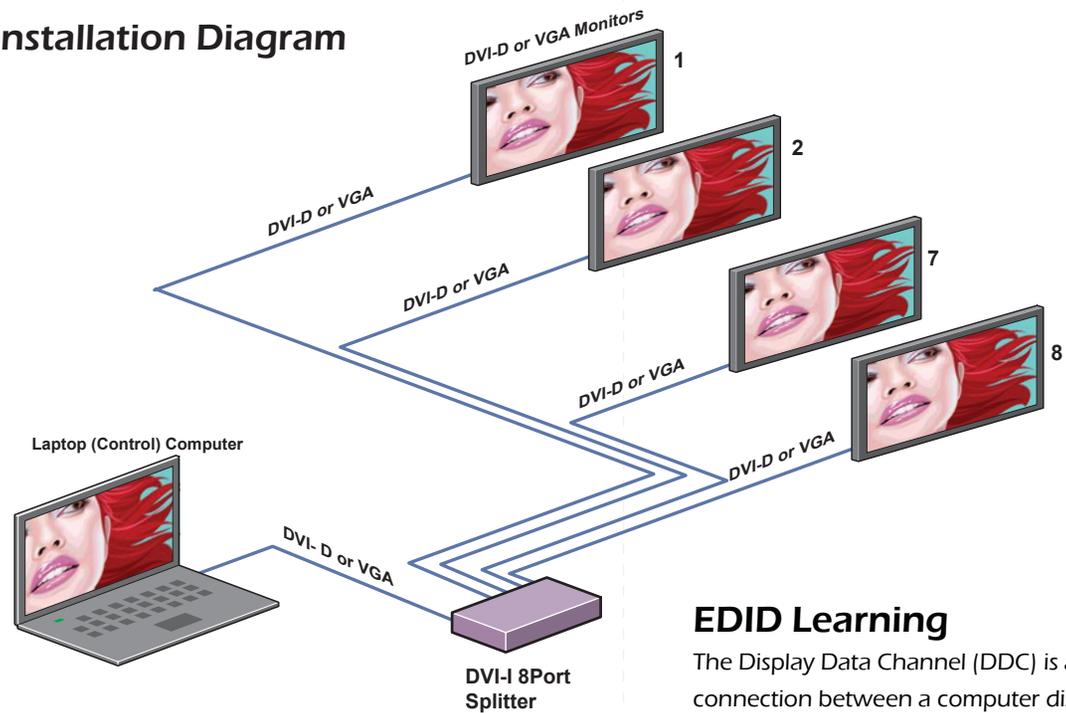- 1 Power Adapter 5VDC 4A

Operation for Cascade

1. The function to display identical images on more monitors, is an attachment of another splitter.
2. Connect the DVI male/female extendion cable between the former splitter of the "DVI out 1" port and the latter splitter of the "video in" port.

Note:

Even though you are allowed to cascade the splitter with varied ports, the image might become unstable if you cascade too many tiers of splitters.

Installation Diagram

DVI-D or VGA Monitors
1
2
7
8
DVI-D or VGA
DVI-D or VGA
DVI-D or VGA
DVI-D or VGA

Laptop (Control) Computer
DVI- D or VGA

DVI-I 8Port Splitter

Installation

1. Turn off computer and monitor.
2. Connect DVI male extension cable between the PC and the "video in" port of splitter.
3. Connect all the monitors to the DVS 8P
4. Connect the power cord and turn on the splitter.
5. Turn on PC and monitors.

EDID Learning

The Display Data Channel (DDC) is a digital connection between a computer display and a graphics adapter that allows the display to communicate its specifications to the adapter.

The Extended Display Identification Data (EDID) is a data structure provided by a computer display over the DDC to describe its capabilities to a graphics card.

The DVS8P does not continue the DDC across the splitter links and contains its own EDID at the video source input. Therefore, the EDID on the DVS8P is used in place of the actual monitors EDID. In order for the computer to output at the correct resolution and refresh rates for a specific monitor, the DVS8P must be loaded with the monitors EDID.

On power-up the DVS8P reads and stores the EDID of the DVI monitor connected output 1.

IMPORTANT:

The DVS 8P supports VGA or DVI, can not be used combined or mixed.