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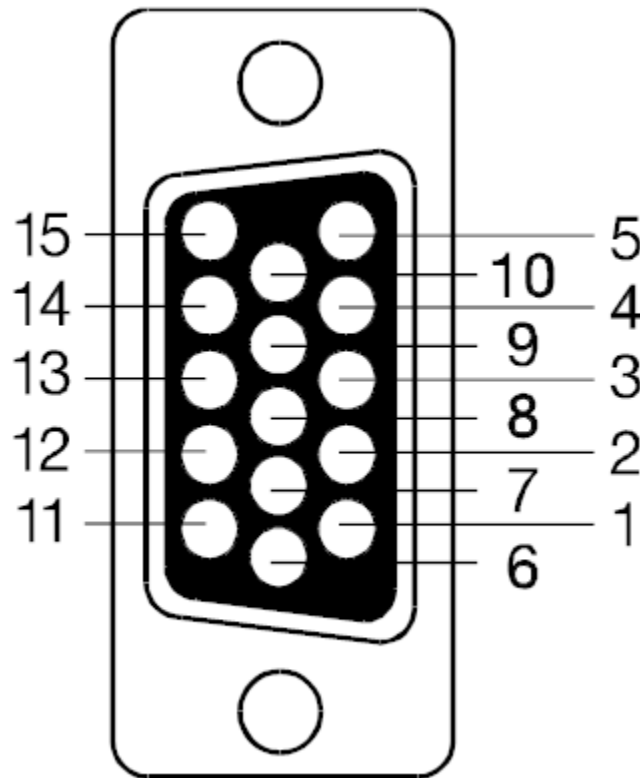**EXTRA INFORMATION**

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Computer Monitor Wiring

SVGA connections have been the standard way of connecting computers to their monitors since 1990.

The SVGA (Super VGA) video interface offers more colors and resolutions then the VGA (Video Graphics Array) interface it replaced, but does not really exist as a single standard.

The SVGA (Super VGA) video interface offers more colors and resolutions then the VGA (Video Graphics Array) interface it replaced, but does not really exist as a single standard. The primary standard refers to the BIOS, and how the computer talks to the monitor. The SVGA standard was released in 1990, replacing the VGA standard. The SVGA screen resolution is 800 x 600 pixels at a bandwidth of 45MHz.

VESA Display Data Channel [DDC] is a VESA standard that defines how to read certain pins in a standard SVGA Monitor to query the monitor's capabilities. The DDC interface pins use the I2C interface bus, as DDC Data for SDA, and DDC Clock as SCL. Refer to the diagram and tables below for the various SVGA pinouts.

SVGA Connections

Pin #	Pin Name	Pin Description
1	RED Video	Red Video
2	GREEN Video	Green Video
3	BLUE Video	Blue Video
4	NA [ID2]	Monitor ID, Bit #2
5	n/c	not connected
6	RGND	Red Ground
7	GGND	Green Ground
8	BGND	Blue Ground
9	Key	No pin installed
10	Ground	Ground
11	ID0	Monitor ID Bit #0
12	ID1	Monitor ID Bit #1
13	HSYNC	Horizontal Sync / Composite
14	VSYNC	Vertical Sync
15	n/c	not connected

VESA DDC SVGA Connections

Pin #	Pin Name	Pin Description
1	RED Video	Red Video
2	GREEN Video	Green Video
3	BLUE Video	Blue Video
4	NA [ID2]	Reserved [Monitor ID, Bit #2]
5	GND	Ground
6	RGND	Red Ground
7	GGND	Green Ground
8	BGND	Blue Ground
9	Key	No pin installed
10	SGND	Sync Ground
11	ID0	Monitor ID Bit #0
12	SDA [ID1]	DDC data Line [Monitor ID Bit #1]
13	HSYNC	Horizontal Sync
14	VSYNC	Vertical Sync
15	SCL [ID3]	DDC Data Clock Line [Monitor ID Bit #3]

VGA 9pin D-Sub Connector

Pin #	Pin Name	Pin Description
1	RED	Red Video
2	GREEN	Green Video
3	BLUE	Blue Video
4	HSYNC	Horizontal Sync
5	VSYNC	Vertical Sync
6	RGND	Red Ground
7	GGND	Green Ground
8	BGND	Blue Ground
9	SGND	Sync Ground

VGA Adaptor Cable - 9 to 15 pin

DB9 Pin #	Pin Description	HD15 Pin #
1	Red Video	1
2	Green Video	2
3	Blue Video	3
4	Horizontal Sync	13
5	Vertical Sync	14
6	Red GND	6
7	Green GND	7
8	Blue GND	8
9	Sync GND	10 + 11

MAC II / Quadra Monitor / Video Connector

Pin #	Pin Description
1	red ground
2	red
3	C sync
4	sense pin
5	green

6	green ground
7	sense pin
8	n/c
9	blue
10	sense pin
11	ground
12	V sync
13	blue ground
14	ground
15	H sync

Macintosh to SVGA Video Adapter Cable

Used for connection of a Mac computer to a VGA monitor

Mac Pin #	Pin Description	VGA Pin #
1	Red Ground	6
2	Red	1
3	Composite sync	13
4	Monitor Sense 0	4
5	Green	2
6	Green Ground	7
7	Monitor Sense 1	11
8	No connection	n/c
9	Blue	3
10	Monitor sense 2	12
11	Sync Ground	10
12	Vertical Sync	14
13	Blue Ground	8
14	Horizontal Sync Ground	n/c
15	Horizontal Sync	n/c

If you are seeking information on SVGA wiring but cannot find it here, please email **info@leadsdirect.co.uk**
and we will try to both answer your question and make sure that the information is made available through
these pages for future reference

If you need any further information please **email our sales team** or telephone one of our hotline numbers:
UK: Local Rate: 08448 155 955 (many lines)
UK: STD: 01273 515735 (only one line)

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