UNIGRAF



VTG Interface Adapter

VIA-TTL

Digital Interface Adapters for Flat Panel Displays

The VIA-TTL, VTG Interface Adapter, is a high-speed digital interface for buffering, voltage level adjusting and connecting 24 or 48 bits of TTL data clock & sync signals to different parallel interface and pin-conficurations, backlightning and display electronics.

Total Flexibility for all your needs

Every VIA comes equipped with floppy-disk, containing appropriate .vtm file for driving the VIA.Interface parameters and their preset values are specified in .vtm file. The user adjustable parameters are shown in the Edit TIMING Menu. These values can be SAVED in TIMING file.If the VIAparameters should NOT be SAVED, use File-Configure:Silent Mode during SAVE.

This .vtm file should be copied to the Specified path in File-Configure menu VIA files (PM files). All .vtm files for different Vtg Interface Adapters can be SAVED here, when their names are different. Filename std0981.vtm consists of first three letters (std) then four numbers (0981) and .vtm. This last number (this case 1) is related to the VIA address on the VIA pcb ADDRESS jumpers. If the last number in the filename is changed, also the four jumper setting must be changed accordingly.

If there is no appropriate .vtm file and VIA ADDRESS jumpers pair available, Edit TIMING Menu shows:

Cannot open VTM file.

If TIMING file does not have corresponding parameters with the correct .vtm file Edit TIMING Menu shows:

PMID matching failure.

It is possible to see the VIA ADDRESS jumpers setting number in the TIMING Menu, Clock section.

All this enables this kind of standard interfacing protocol to different kinds of Display Interfaces now and in the future.

The VIA Advantage

- Full ATE support.
- DDC Support.
- Lower Cost, when standards change all you need to change is the adapter, not a complete generator!

Full Software Support

- Interface controlling and adjusting is software controlled via the UNIGRAF Windows User Interface.
- Drivers for Win95, Win98 and NT 16 and 32 bit DLLs.

The right VIA for your application

Due to the changing markets and standards the VTG-1108 and VTG Interface Adapters are the preferred choice. There are VIA's available for LVDS, TMDS, Parallel-TTL and RGB interfaces.



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Input signals

Pixel Clock 90 MHz MAX Pixel Frequency 180 MHz MAX PbRdL, PbWrL, PbResL DATA 48 bits = 2×24 bit Pixels Blank=DE=DataEnable Hsync, Vsync

VIA-ControlBus D0..D8 DDC: SCL, SDA, +5 V DDC Vcc +5 V, +12 V from PC

Output pin-configuration connection

Signals from input connector and DC-connector are for user to connect to output connector with jumper wires. Therefore it is possible to create any pin-configuration for the output cable connector on the other side PCB. Normal 2.54 x 2.54 flat cable connector or half pitch cable connector: 2.54 (rows) x 1,27 (pins). External I/O pins can be used as inputs or outputs.



Software adjustment parameters

Enable Data	(0 - 1)	Enables output data, 1 = enable, 0 = disable
Enable Sync	(0 - 1)	Enables clock, blank and sync outputs, 1 = enable, 0 = disable
Data Vcc On	(0 - 1)	Vcc ON for output chips, $1 = ON$, $0 = OFF$
Data Vcc-level	(3.000 - 5.500)	Output voltage level adjust for Data, Clock, Blank and Sync
A-level	(0.000 - 3.000) T	Adjustable DC voltage
B-level	(0.000 - 3.000)	for controlling backlighting
C-level	(0.000 - 3.000) 🔟	power supplies (low current)



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