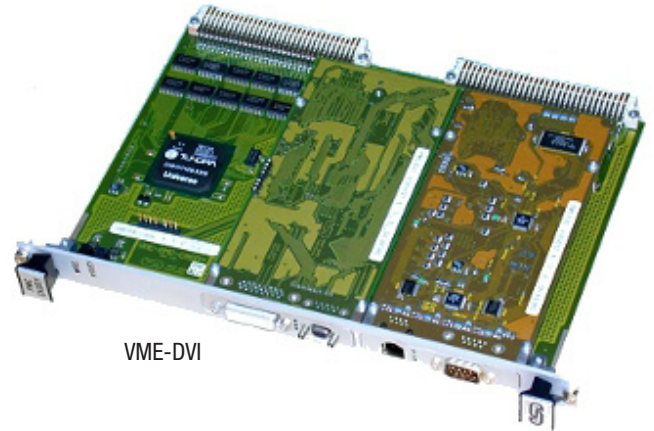




VME-DVI

DVI Color Graphics Processor

- 69030 graphics controller
- Resolution up to 1600x1200x16 bits per pixel
- 4 Mbyte on-chip high performance SDRAM memory
- DVI-I connector including RGB-analog
- PowerPCTM IBM 405GP
- 10/100BaseT ETHERNET
- Two CAN interfaces (TTL-level)
- Serial interfaces



VME-DVI

Graphics Controller Asilant 69030

The powerful graphics controller 69030 offers display modes from 640x480 (true color) at 85 Hz up to 1600x1200 (16 bit colors) at 60 Hz. The DVI-I-interface controls CRT-monitors by analog video signals as well as TFT-monitors by digital video signals.

Keyboard and Mouse Interface

The board is equipped with a Mini-DSUB9-connector as PS2-interface. You can connect a PS2-keyboard and a PS2-mouse to this port simultaneously with an adapter.

PowerPCTM Control

The VME-DVI is equipped with the IBM PowerPCTM 405GP with 200 or 266 MHz that offers a performance of up to 375 MIPS. 32 Mbyte (optional 64 Mbyte) SDRAM and up to 32 Mbyte Flash are available as program and data memory. A non-volatile NVRAM enables the VME-DVI to save valuable process variables during power off sequences.

Network Interfaces

The VME-DVI comes with an ETHERNET interface for 10 Mbit/s and 100 Mbit/s nets. It is accessible as 10/100BaseT via RJ45 connector in the front panel. The board provides 2 CAN interfaces based on SJA1000 CAN controllers. The board routes

TTL-level CAN signals to the VME P2 connector. Both CAN allow data transfer rates of 1 Mbit/s. One of two RS-232 serial ports is available via a DSUB9 connector in the front panel, the other one via the VMEbus P2 connector.

Software Support

The flash memory carries a standard ppcboot and enables the VME-DVI to boot various operating systems from network and onboard Flash. The VME-DVI directly supports Linux and Vx-Works with full support of onboard drivers by esd, others on request. There is also a bunch of higher layer protocols like CANopen, DeviceNet as well as an on-board web server available. Graphics drivers are available for VxWorks, RTOS/UH, Linux and QNX. The module supports Windows 98/NT/2000, and other drivers are available on request.

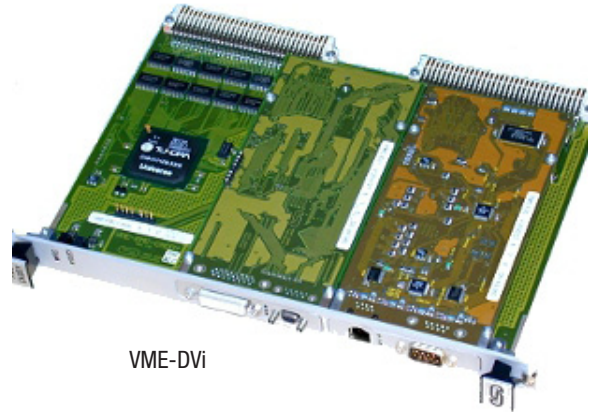
For further information please visit
<http://www.esd-electronics-usa.com/VME.html>

growing with the
challenge

VME-DVI

DVI Color Graphics Processor

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VME-DVi

Technical Specifications:

Microprocessor circuit:	
Microprocessor:	IBM PowerPCTM 405GP, 200/266 MHz, 32 bit
Memory equipped:	from 8 M x 32 bit SDRAM (32 Mbyte), up to 16 M x 32 bit SDRAM (64 Mbyte), up to 32 Mbyte Flash EPROM, 32 Kbyte NVRAM or optional RTC
Graphics:	
Outputs:	Simultaneous display of digital TFT-monitor and analog CRT-monitor with different frequencies at DVI-connector
Display modes:	VGA (640x480) with True Color (24 bit) at 85 Hz SVGA (800x600) with True Color at 85 Hz XGA (1024x768) with High Color (16 bit) at 85 Hz SXGA (1280x1024) with 8 bit color at 75 Hz UXGA (1600x1200) with 16 bit color at 60 Hz
Interfaces:	
ETHERNET:	10/100BaseT, IEEE802.3, RJ45-connector
Serial:	1x RS-232 at DSUB9 in front panel, 1x RS-232 at VMEbus P2 connector
CAN:	2x CAN, controller SJA1000, CAN 2.0A/B, TTL-level signals, 1 Mbit/s, VME P2 connector
Keyboard, mouse	Two PS2-ports for keyboard and mouse at one Mini-DSUB9 connector in front panel
VMEbus section:	
Base address:	Selectable via coding switch (no geographical addressing)
VMEbus rev.	IEEE 1014 rev. D
Data transfer options:	Master or slave function, A32, A24, A16; D8, D16, D32
Interrupts:	Programmable levels

General:	
Temperature:	0...50 /C
Humidity:	Max. 90%, non-condensing
Connector types:	VMEbus: P1/P2 acc. to IEC 603-xx (160 pins) CAN: VMEbus P2 acc. to IEC 603-xx keyboard, mouse: Micro-DSUB 10/100BaseT: RJ45 RS-232: DSUB9, VMEbus P2 graphics: DVI connector
Board size:	160 mm x 233 mm (6 U height, 1 slot width)
Power:	+5 V \pm 5 %, +12 V \pm 5 %

Order Information:

Designation		Order no.
VME-DVI	IBM PPC 405GP, 200 MHz 32 MB SDRAM, 32 MB Flash, graphics controller	V.1510.02

For further information please visit
<http://www.esd-electronics-usa.com/VME.html>

