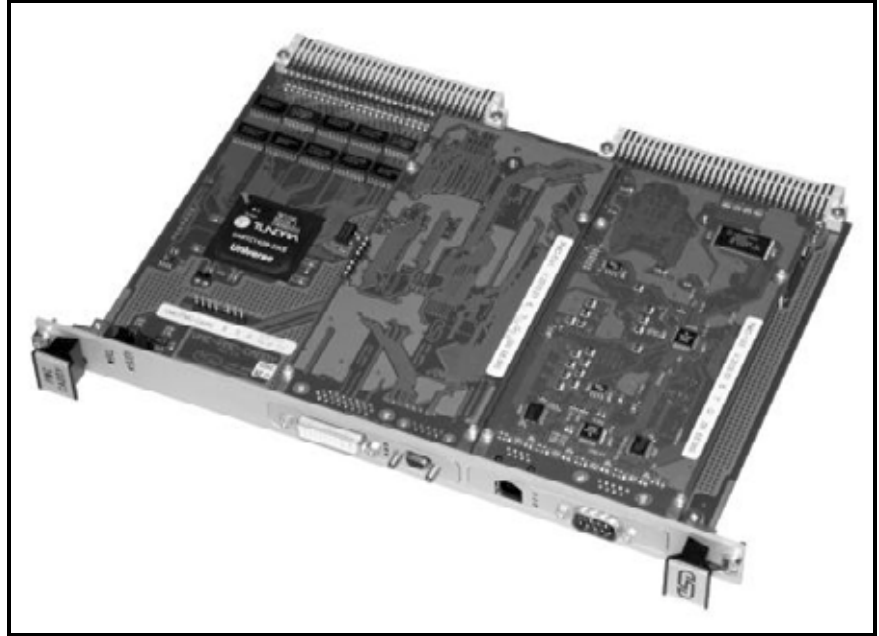


VME-DVI DVI Color Graphics Processor

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



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 is designed to control 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. A PS2-keyboard and a PS2-mouse can be connected to this port simultaneously by means of an adapter.

PowerPC™ Control

The VME-DVI is equipped with the IBM PowerPC™ 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 programm 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 TTL-level CAN signals are routed 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.

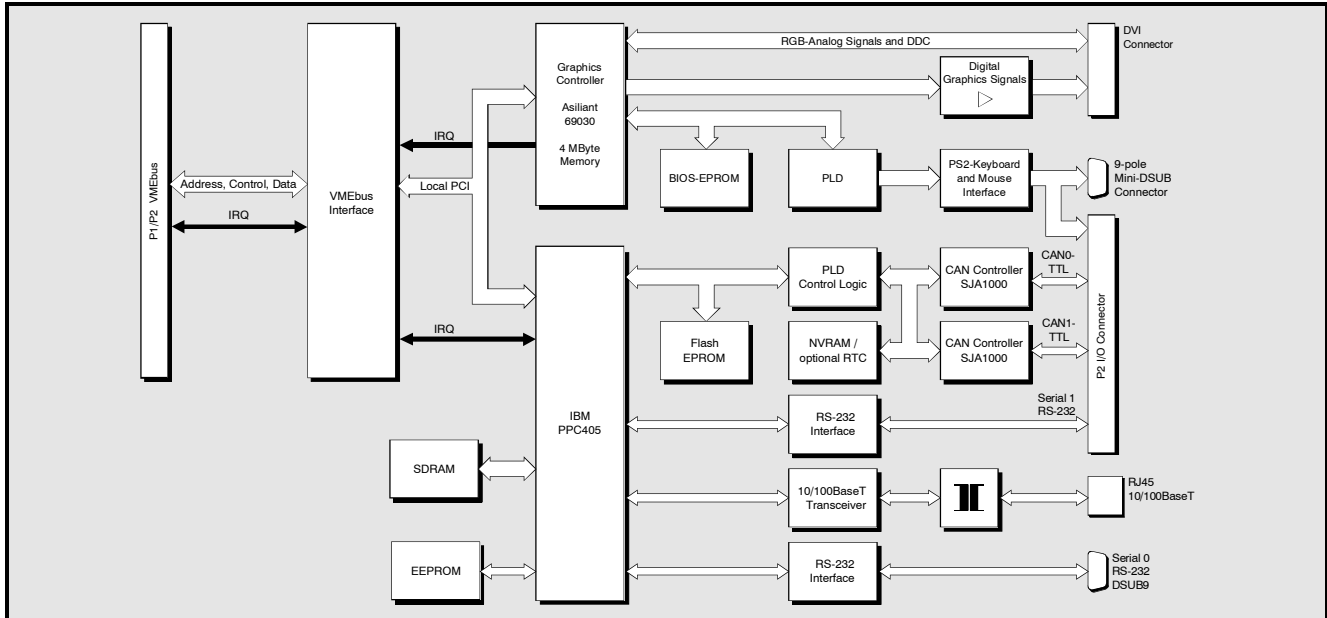
Software Support

The flash memory carries a standard ppcboot and enables the VME-DVI to boot various operating systems from network and on-board Flash. Thus Linux and VxWorks are directly supported with full support of on-board 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. Windows 98/NT/2000 is also supported. Other drivers are available on request.

VME-DVI

DVI Color Graphics Processor



Technical Specifications:

Microprocessor circuit:

Microprocessor: IBM PowerPC™ 405GP, 200/266 MHz, 32 bit

Memory from 8 M x 32 bit SDRAM (32 Mbyte),
equipped: 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 ±5 %, +12 V ±5 %

Order information:

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