



ALT Software Inc.

GT3D Development Kit

ALT Software, Freescale Semiconductor, Fujitsu Microelectronics, Men Micro, and Silicon Turnkey Express have joined forces to produce a development kit that includes high-performance PCI-104 3D graphics hardware, a PowerPC processor, and an optional OpenGL display driver kit. The GT3D Development Kit enables application developers to create graphics-rich embedded software applications for single board computers. As a Freescale mobileGT Alliance member, ALT Software has ensured that this product is ideally suited for vehicle electronic displays used in navigation, infotainment, and instrument clusters.

Features

- Freescale MPC5200 processor
- Fujitsu Coral P/PA based 3D/2D graphics acceleration
- Composite video in
- Component video in (Y, Pb, Pr)
- Composite VGA out
- Two RS232 UARTs (COM1/COM2), via one 9-pin D-Sub connector I/O
- SVGA 8.5" diagonal 350NIT brightness TFT LCD display
- Video camera
- 32 MB SDRAM
- 32-bit/33-MHz PCI interface
- 3.3V & 5.0V DC outputs
- 12V input
- Operational temperature -40°C..+80°C on all components
- Demo application running on Embedded Linux



Software Supported

- RTOS supported: Embedded Linux, QNX Neutrino, Wind River VxWorks
- CANopen firmware (Vector Informatik)
- CANopen support: MEN Driver Interface System (MDIS for Windows, Linux, VxWorks, QNX, RTX, OS-9)
- MSCAN/Layer2 support: MEN Driver Interface System (MDIS for Windows, Linux, VxWorks, QNX, RTX, OS-9)

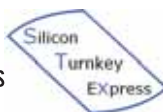


Applications

- Automotive
- Telematics and infotainment
- Industrial controls
- Medical devices
- Avionics
- SCADA
- Casino gaming

About ALT Software

ALT Software provides software and hardware development and design services, as well as embedded graphics software and hardware products. Our strengths are in software engineering, hardware design and prototype development with particular expertise in 3D/2D graphics, video, audio, wired and wireless technologies. Our embedded graphics products include OpenGL based graphics display drivers as well as display adapter hardware for a wide range of system configurations.



GT3D Card Features

The GT3D Graphics Display Controller is an industrial rated implementation of Fujitsu's telematics focused Coral P 3D graphics controller.

- PCI-104 3.3V and 5V universal board
- Full industrial temperature -40°C..+85°C on all components
- Power as low as 1 watt (no fan required)
- Composite video in and video out for multiple overlays
- Standard 31 pin LCD 18-bit digital video out
- Standard HD-15 connector
- Support for VGA, SVGA, XGA resolution
- Onboard flash for texture mapping
- One of the smallest commercially available 3D display adaptors in the market

Single Board Computer Features

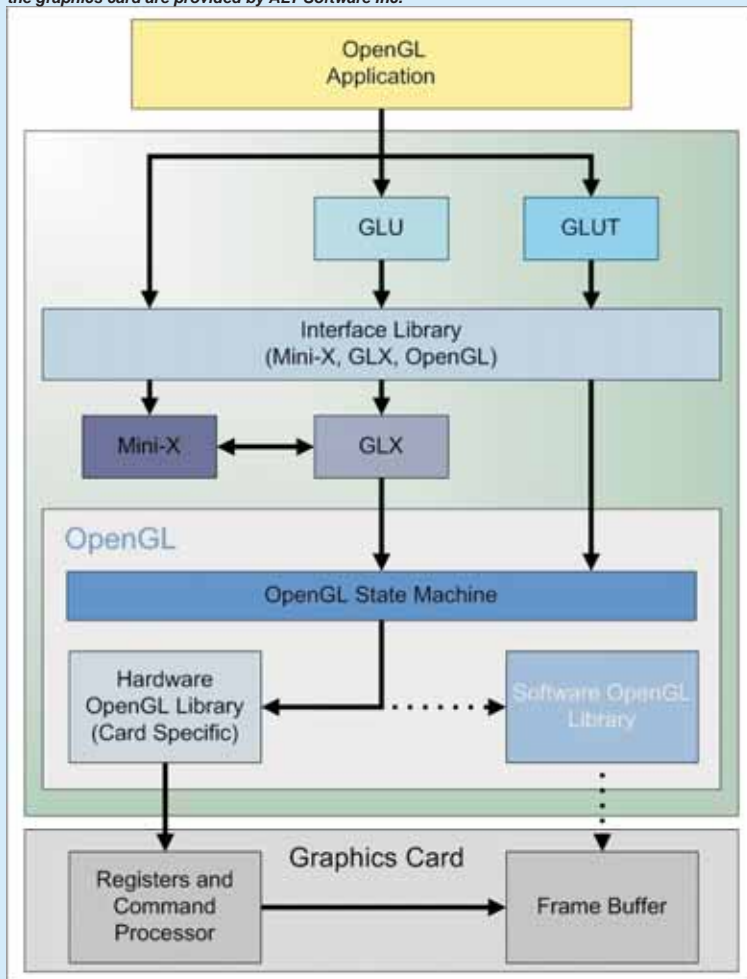
The PP1 is an industrial computer designed to operate under harsh environmental conditions. It is compliant with the PCI-104 specification and can be stacked with other PCI-104 boards or mounted on different types of carrier boards. The PP1 comes with a firmware BIOS that can be used for bootstrapping operating systems (from disk, flash or network), hardware testing or debugging applications without running any operating system.

- Freescale MPC5200 processor, under 1 watt power consumption @ 384 Mhz
- 32MB SDRAM
- 16MB Flash
- 64KB non-volatile FRAM
- 2 optically isolated RS232 ports
- 1 Fast Ethernet, dual UART
- Dual CAN with CANopen support
- Altitude: -3000 to +3000m
- Shock: 15g/11ms
- Bump: 10g/16ms
- Vibration (sinusoidal): 2g/10..150Hz

The ALT Software OpenGL Development Platform

ALT Software also offers an optional OpenGL display driver kit that supports application development on Microsoft Windows, Linux, Wind River VxWorks and QNX Neutrino. The kit accommodates a large selection of PowerPC processors and coprocessors that control graphics, video, networking, and audio. Various licensing models are available to suit different customer requirements.

All components between the OpenGL Application and the graphics card are provided by ALT Software Inc.



Features

- Modular OpenGL driver architecture to control memory footprint size
- Isolated OpenGL hardware acceleration library
- Updatable to support future graphics processor versions and next generation chipsets
- Free from third party source code synchronization problems
- Technical support and updates, including new software application layers (SALs) to support hardware combinations and safety certification requirements
- OpenGL API is independent from graphics hardware, OS/RTOS, video I/O, and debugging modules
- OpenGL API upgrades
- Prototype drivers

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