Cheetah EPM-32

The Cheetah’s Pentium M processor provides outstanding performance of up to 1.6 GHz while drawing less than 25 watts of power, or about half the power of desktop processors offering similar performance. In combination with the 855 GME chipset, the processor provides fast RAM access for applications and support for much of the board’s integrated I/O, including video output. The Extreme Graphics 2 video built into the chipset offers outputs for LVDS flat panels and analog (CRT) monitors at resolutions up to 2048 x 1536. It supports 24-bit color, very fast rendering, and MPEG-2 decoding for full motion video. The video RAM is allocated from system memory (up to 64 MB). With its two COM ports, two USB ports (2.0), 10/100 Ethernet, LPT port, and IDE interface, the Cheetah offers more I/O options than other similar-sized SBCs. In addition, PC/104 and PC/104-Plus connectors provide support for many off-the-shelf expansion boards for added system functionality with minimal space requirements. The Cheetah also integrates a number of reliability-enhancing features such as a watchdog timer and TVS devices. The Cheetah is suited for higher-end applications, such as security systems, telematics, UAVs, and sophisticated OEM communications equipment.

FEATURES

- High-Performance Processor: Intel Pentium M processor operating at 1.6 GHz
- Intel Extreme Graphics 2 Video: Very high-speed rendering and MPEG-2 support
- On-board I/O: Two USB 2.0 ports, two COM ports (one 422/485/232 configurable), IDE interface, LPT port, audio
- Embedded BIOS: OEM embedded features; field-upgradeable, customization available
- CompactFlash Socket: Removable storage device has no moving parts
- Watchdog timeout, VCC sensing: Resets below 4.70 V typical
- Dual board set: 3.55” x 3.775” (90 mm x 96 mm) with .2” (5 mm) overhangs in designated connector areas
- Argon Managed Boot Agent: Supports PXE, RPL, NetWare, TCP/IP (DHCP, BOOTP) remote boot protocols
- Compatible with most x86 operating systems, including WinCE/XP/XPx, QNX, VxWorks, and Linux

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