GEME-X52000

4-CH Real-time Video Capture Compact Vision Platform ⋮•

Features

- **Utilizes ADLINK's wide-ranging experience in vision applications**
    - ◆ *Machine Vision, Surveillance, Intelligent Transportation System*

- **Based on extensive research on ideal system requirements for vision applications**
    - ◆ *Compact, Fanless, anti-vibration and anti-shock*

- **Flexible, and expandable design for machine automation, factory automation**
    - ◆ *AC/DC power input, optional remote I/O, and motion control modules*

◪ Applications

- Off Line Inspection
- Digital Video Recorder
- Intelligent Transportation System
- Alignment

◪ Specifications

System Specifications

CPU	Low Voltage Intel® Pentium® M 1.4GHz
Cache	1MB / 2MB on-die Advanced Transfer Cache (ATC)
System Memory	One SODIMM socket for up to 1GB DDR333
Chipset	Intel® 855GME Graphics and Memory Controller Hub (GMCH)
	Intel® I/O Controller Hub 4 (ICH4)
VGA	On-board VGA controller built-in AGP (3D hyper pipelined architecture)
	Up to 1600 x 1200 in 32-bit color at 85Hz refresh rate
	Video memory sharing from main memory with Intel® Dynamic Video Memory Technology (DVMT)
	Up to 64MB of dynamic video memory allocation
USB	2 USB ports, USB 2.0 compliant
IEEE 1394 (Optional)	Texas Instruments TSB43AB23 1394a-2000 OHCI PHY/link-layer controller
	2 IEEE-1394 ports
Ethernet	Intel® 82562EM 10BaseT/100BaseT x 1
Super I/O Chipset	Chipset Winbond® W83627HF
Hardware Monitoring	Built-in Winbond® W83627HF, monitoring CPU temperature, voltage and battery, +3.3V, +5V, +12V voltage
COM Port	COM1/ COM2: 16550 UART compatible ports with RS-232 interface, COM2 also supports RS-422, RS-485
Parallel Port	One high-speed parallel port, SPP/EPP/ECP mode
Keyboard/Mouse	Combined PS/2 type mini-DIN connectors
Watchdog Timer	Time-out timing selectable, 1-255 seconds
Power Supply	AC input: 100 VAC to 220 VAC, Max. output : +5V 11.5A, +12V 3A, -12V 0.5A
	DC input (Optional): 10VDC to 30VDC, Max. input current: 13A at 10VDC, Max. output: +5V 10A, +12V 1.5A, -12V 0.3A
Operating Temp.	-10˚ ~ +50˚C
Humidity	0% ~ 90%
Dimensions	183 x 140 x 95.36 mm (wall mount kit not included) [16.84 mm(H) for each extension kit]
Power Consumption	With 512MB DDRAM +5V 5.5A, +12V 300mA
	Test conditions: (1) CPU 100% loading (2) No HDD, CD ROM, extension module
Power Output	+5V Max. 1A, +12V Max. 1A
Storage	50 pin socket for CompactFlash Type I/II One 44-pin IDE HDD (Optional)
Operating System	Windows® XP/Xpe, Fedora 3 with kernel 2.6.9

Camera Interface

CCD Support	Color: PAL/NTSC
	Monochrome: CCIR/EIA
	Interlaced
Resolution	VGA
Frame Rate	30 fps
Video Input	BNC x 4