

GEME-4000/5000 Series

Ultra Low Voltage Intel® Celeron® M 1GHz / Low Voltage Intel® Pentium® M 1.1/1.4GHz



GEME-4000

Intel® Celeron® M General Embedded Machine Engine

GEME-H4000

Intel® Celeron® M General Embedded Machine Engine with Hardware MPEG4

GEME-S4000

Intel® Celeron® M General Embedded Machine Engine with PCMCIA

GEME-5000

Intel® Pentium® M General Embedded Machine Engine

GEME-X5000

Intel® Pentium® M General Embedded Machine Engine with Video Capture

GEME-S5000

Intel® Pentium® M General Embedded Machine Engine with PCMCIA

Specifications

GEME	Model Number	GEME-4000	GEME-S4000	GEME-H4000	GEME-5000	GEME-S5000	GEME-X5000
SBC	Model No.	EBC-P400					
	CPU	Ultra Low Voltage Intel® Celeron® M (1.0GHz)			Low Voltage Intel® Pentium® M (1.1GHz, 1.4GHz)		
	Cache	512 KB on-die Advanced Transfer Cache (ATC)			1 MB/2 MB 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	Two USB ports, USB 2.0 compliant					
	IEEE 1394	Texas Instruments TSB43AB23 1394a-2000 OHCI PHY/link-layer controller Two IEEE-1394 ports					
	Ethernet	Intel® 82562EM 10BaseT/100BaseTx					
	Enhanced IDE	Bus Master IDE controller, EIDE interfaces for up to two devices, support PIO Mode 3/4 or Ultra DMA/100 IDE devices, including Hard Disk Drive, ATAPI CD-ROM, LS120, and ZIP drives.					
	CompactFlash	50 pin socket for CompactFlash Type I/II					
	Super I/O Chipset	Winbond W83627HF					
	Hardware Monitoring	Built-in Winbond W83627HF, monitors CPU temperature, voltage and battery, +3.3V, +5V, +12V voltages					
	COM Ports	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	PS/2 type mini-DIN connectors					
	Floppy Interface	None					
	PMC Interface	1 on-board 32-bit 33Mhz PMC module socket for functionally expansion					
	PC104 Interface	16-bit, PC/104 interface for functionally expansion					
	Watchdog Timer	Time-out timing select 1-255 seconds					
	Dimensions	129mm x 167.5mm					

GEME	Model Number	GEME-4000	GEME-S4000	GEME-H4000	GEME-5000	GEME-S5000	GEME-X5000
System	Power Supply (optional)	Universal input AC 100 VAC to 220 VAC, Max. output : +5V 11.5A, +12V 3A, -12V 0.5A DC input: 10VDC to 30VDC, Max. input current: 13A at 10VDC, Max. output: +5V 10A, +12V 1.5A, -12V 0.3A					
	Operating Temp.	-10°-55°C	-10°-50°C		-10°-55°C	-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 4.0A, +12V 300mA			With 512MB DDRAM +5V 5.5A, +12V 300mA		
		Test conditions: (1) CPU 100% loading (2) No HDD, CD ROM, extension module					
	Power Output	None	None		None	None	
	Storage	Swappable H/D or 2 nd CF	Internal :one 44-pin IDE External : none		Swappable H/D or 2 nd CF	Internal :one 44-pin IDE External : none	
	GPIO (TTL)	None	None	Four digital input, Four digital output	None	None	Four digital input, Four digital output
	PCMCIA	None	One	None	None	One	None
	Audio	AC97 MIC IN Speaker OUT	None	None	AC97 MIC IN Speaker OUT	None	None
	Operating System	Windows® CE, Windows® XP Embedded, Linux®					
	Random Vibration	Operating: 5-100Hz, 0.0055g2/Hz; 100-500Hz, -6dB/Octave, 1.0Grms, 3axes, 30 minutes/axis Non-operating: 5-100Hz , 0.0806g2/Hz ; 100-500Hz , -6dB/Octave, 3.76Grms, 3 axes, 1hr/axis (IEC 68-2-64)					
	Shock	Non-operating:15G, half sine, 11ms duration (IEC 68-2-27)					
	Optional	DVI/LVDS interface					

GEME-H4000/GEME-X5000 Compact Vision Platform

- Ready embedded vision platforms
- Leverages ADLINK's wide-ranging experience in digital and analog vision applications
- Based on extensive know-how on ideal system requirements for vision applications

GEME-H4000

Intel® Celeron® M 4-CH Hardware MPEG4 Video Platform

- NTSC (720x480) at 30fps for 1 full channel, or 4 channels (Quad)
- PAL (720x576) at 25fps for 1 full channel, or 4 channels (Quad)
- Channel Input: Up to 4 composite video inputs
- Camera Support Color: PAL / NTSC, Monochrome: CCIR / EIA
- Video Output: MPEG4
- 4 TTL I/O lines
- OS Support: Windows® 2000/XP/XPe, Fedora 3 with Kernel 2.6.9
- Software Support: Microsoft® DirectX

GEME-X5000

Intel® Pentium® M 4-CH Real-Time Video Platform

- NTSC (640x480) at 30fps per channel
- PAL (768x576) at 25fps per channel
- Video output: raw data
- Channel Input: Up to 4 composite video inputs
- Camera Support Color: PAL / NTSC, Monochrome: CCIR / EIA
- 4 TTL I/O lines
- OS Support: Windows® 2000/XP/XPe, Fedora 3 with Kernel 2.6.9
- Software Support: Microsoft® DirectX