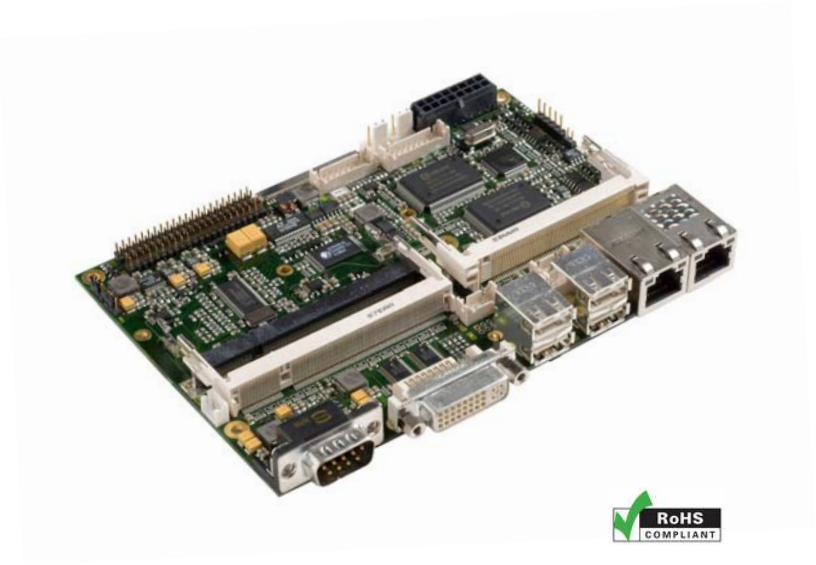
ADL855HD - Intel Pentium M / Celeron M 1.0GHz - 1.8GHz

Features

- Intel® Pentium® M / Celeron® M, 1.0GHz - 1.8GHz
- Intel® 855GME / ICH4, 400MHz FSB
- Power Management (APM 1.2 plus features)
- Up to 2GB DDR 333Mhz SDRAM
- Four Serial connections
- Onboard DVI Connector
- 10/100 Mbit and 10/100/1000 Mbit Ethernet Ports
- 6 x USB2.0 Ports
- CRT and 18/24 Bit LVDS/TFT Connections
- Mini-PCI Interface
- RTC and Watchdog Timer
- 5VDC, 5VDC Suspend (12VDC for fans)



Ordering Information

Item Code	Part #	Description
ADL855HD-373CM	294048	Celeron M, 1.0GHz, 512k Cache
ADL855HD-370CM	294049	Celeron M, 1.5GHz, 1024K Cache
ADL855HD-745PM	294045	Pentium M, 1.8GHz, 2048K Cache
SoDIMM200 DDR SDRAM Memory		
DDR-DRAM128-3	994715	128MB DDR 333MHz STD TEMP
DDR-DRAM256-3	994825	256MB DDR 333MHz STD TEMP
DDR-DRAM512-3	994925	512MB DDR 333MHz STD TEMP
DDR-DRAM1024-3	994025	1GB DDR 333MHz STD TEMP
DDR-DRAM512-3EX	994928	512MB DDR333MHz -40°C - +85°C
DDR-DRAM1024-3EX	994028	1GB DDR 333MHz -40°C - +85°C
DDR-ECC512	TBD	512MB ECC DDR333MHz STD TEMP
DDR-ECC1024	TBD	1GB ECC DDR333MHz STD TEMP
DDR-ECC512-EX	995928	512MB ECC DDR333MHz -40°C - +85°C
DDR-ECC1024-EX	995026	1GB ECC DDR333MHz -40°C - +85°C
*More options are available . Please contact your sales representative		

Description

The ADL855HD is based on the Intel® Pentium® M / Celeron® M processors offering clock rates up to 1.8GHz. The Intel® 855GME chipset (GMCH) supports a 400MHz FSB with integrated Intel® Graphics controller “Extreme Graphics 2“. It can drive either a DVI/ CRT or LVDS LCD. The memory is added via 2x SODIMM200 sockets and can accept up to 2 Gigabytes of DDR333 SDRAM.

The ADL855HD power management incorporates ACPI/APM functions, which utilizes Intel's Advanced SpeedStep® (Pentium® M only) feature. The standard ADL855PC also incorporates Mini-PCI Bus, EIDE, 6xUSB 2.0, 4xRS232 COM ports, PS/2 Keyboard and Mouse, ELO Touchscreen (USB6), AC97 Sound, separate 10/100MBit and 10/100/100 Mbit Ethernet LAN, hardware monitoring and more.

ADL offers highly effective active and passive cooling solutions based on proven thermal data and mounting techniques; resulting in the least possible mechanical board stress. Please contact your Sales Engineer for detailed information on cooling solutions to fit your needs.

Data subject to change without notice

Technical Specifications

FEATURE	FUNCTION	REMARKS	OPTIONS
Processor/CPU:	Intel® Pentium® M / Celeron® M	1.0GHz - 1.8GHz	
L2-Cache:	512KB / 1024KB / 2048KB	CPU Dependent	
CPU-Clock:	1.0GHz / 1.5GHz / 1.8GHz	Celeron® M / Celeron M / Pentium M	
Chipset	Intel® 855GME / ICH4		
Front Side Bus	400MHz		
CPU Speed Steps:	100MHz software program. via CSR	N/A on Celeron M®	
INTEL Speed Step Technology:	Geyserville III	N/A on Celeron M®	
Memory 200pin DDR SODIMM:	128MB – 2048MB	ECC Memory Supported	
Video Controller:	855GME Intel Extreme Graphics 2		
Video Memory:	1 – 32MB UMA DDR-RAM	64MB Window	
Video Interfaces:	CRT / DVI / LVDS		
Video Channel 1:	CRT / DVI 2048 x 1536		
Video Channel 2:	LVDS 18/24/36/48 Bit	36/48 requires second cable	
Real Time Clock:	Yes	External Battery Required for RTC	
Ethernet LAN Controller1:	Intel® ICH4 – ext. PHY 82562EZ	10/100 MBit with RPL, PXE and WOL	
Ethernet LAN Controller2:	Intel® 82541ER	10/100/1000 Mbit with WOL	
AC97-Controller:	Intel® ICH4 – AC97 V2.3	ALC655 Codec 5.1 Sound	
SMBus-Controller:	Intel® ICH4 – SMBus		
USB2-Controller:	6x Ports V2.0	USB-6 for use with ELO Touchscreen	
Flash BIOS:	512KB/1MB		2MB available on version G5
BIOS:	Phoenix Award 6.1		
Power Management Control:	ACPI / APM		
EIDE-Controller:	PIO 1-4 and UDMA 100*/66*/33	Primary and Secondary support	*requires 80 conductor cable
HW-Monitor:	Winbond W83627HF		
Audio Output:	Stereo Output and SPDif	5.1 Support	
Audio Input:	Stereo-Line, Mic and SPDif		
Keyboard / Mouse:	PS/2-USB		
COM1 - COM4	RS232	115KBit max,	TTL solder
PCI-Bus:	Mini-PCI Socket		
Power Supply:	+5VDC, +5VDC Suspend (+12VDC for fans)	+/- 5% Tolerance	
Power consumption:	TBD		
Operating Temperature: (typ. ambient)	Celeron® M 1.0GHz: -20°C to +75°C Celeron® M 1.5GHz: -20°C to +60°C Pentium® M 1.8GHz: -20°C to +60°C	With ADL thermal solutions With ADL thermal solutions With ADL thermal solutions	Extended Temperature -40°C to +85°C Available Provided CPU die is kept below 100°C at all times and the installation has sufficient thermal path to dissipate
Dimensions:	147 mm x 20 mm x 102 mm	3.5 inch form factor	
Weight: (gr)	TBD		

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