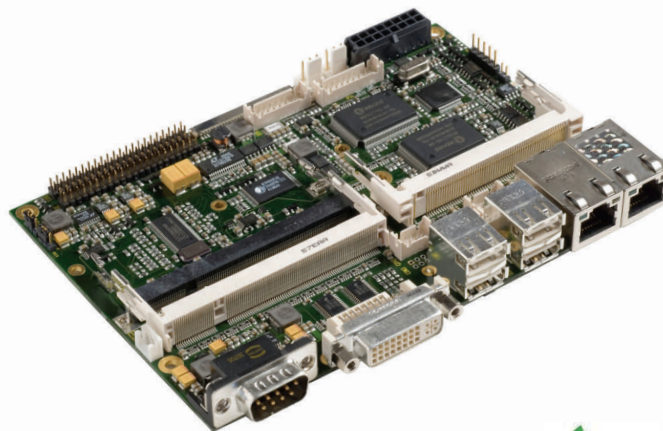




ADL855HD - Intel Pentium M / Celeron M 1.0GHz - 1.8GHz

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 (1GB x 2)
- 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
- Dedicated Resistive Touch Screen
- Mini-PCI Interface
- RTC and Watchdog Timer
- Windows 7, Windows 8, Linux Compatible
- 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
Standard Memory Options		
DDR-DRAM128-3	994715	DDR-333MHz 128MB Standard Temperature
DDR-DRAM256-3LX	994826	DDR-333MHz 256MB Standard Temperature
DDR-DRAM512-3LX	994926	DDR-333MHz 512MB Standard Temperature
DDR-DRAM1024-3LX	994024	DDR-333MHz 1GB Standard Temperature
Extended Temp. Memory Options		
DDR-DRAM256-3-EX	994829	DDR-333MHz 256MB Extended Temperature
DDR-DRAM512-3-EX	994929	DDR-333MHz 512MB Extended Temperature
DDR-DRAM1024-3-EX	994029	DDR-333MHz 1GB Extended Temperature
Options		
ADL35-COMOPT	294000	Additional com port added
*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 SO-DIMM200 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 Touch Screen (COM4), AC97 Sound, separate 10/100Mbit and 10/100/100 Mbit Ethernet LAN, hardware monitoring and more.

ADL Embedded Solutions offer 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.

Note: On the basis of its current material planning, ADL Embedded Solutions guarantees product availability for the 855GME chipset, Pentium-M 745 1.8GHz and Celeron-M 373 1.0GHz processors until 2015, thus providing sufficient time for customers to transition from the 16-bit ISA bus to newer interconnect technologies. The Celeron-M at 600MHz and 1.5Ghz, and the Pentium-M at 1.4GHz processors will undergo normal last time buy process when EOL is announced by Intel. Please contact Sales for additional information.

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		
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, COM4 for use with ELO Touch Screen	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 Embedded Solutions thermal solutions With ADL Embedded Solutions thermal solutions With ADL Embedded Solutions 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
MTBF:	>181,000 Hours	Calculation method: MIL-HDBK-217F	
Dimensions:	5.8" x 4" (147mm x 102mm)	3.5 inch form factor	
Weight: (gr)	TBD		

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