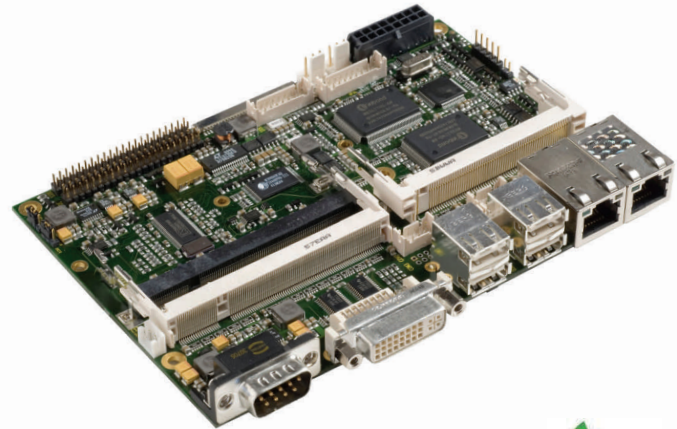




### ADL855HD - Intel Pentium M / Celeron M 1.0GHz - 1.8GHz

#### 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
<b>Standard Memory Options</b>		
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
<b>Extended Temp. Memory Options</b>		
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
<b>Options</b>		
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		

Data subject to change without notice