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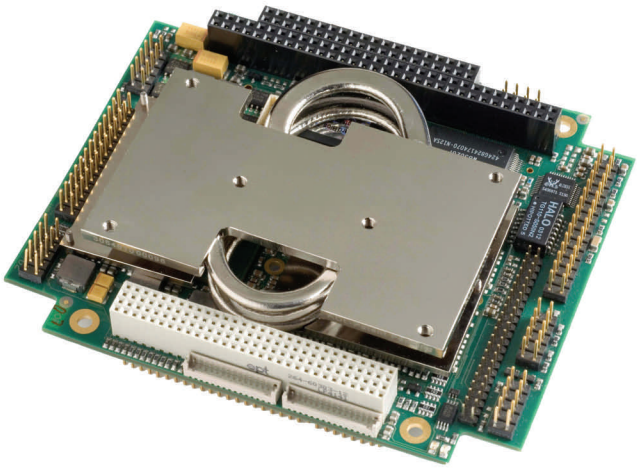
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ADL855PC - Pentium® M / Celeron® M CPU 1.0GHz - 1.8GHz

Features

- Intel® Pentium® M / Celeron® M, 1.0GHz - 1.8GHz
- Intel® 855GME / ICH4, 400MHz FSB
- Power Management (APM 1.2 plus features)
- 128MB - 1024MB DDR-SDRAM
- Direct-X Video Controller
- CRT/LCD on-board
- 10/100 Base-T LAN-Ethernet
- 4 x USB2.0 Ports
- EIDE Hard Disk Interface
- COM1, COM2, LPT1
- RTC and Watchdog Timer
- Windows 7, Windows 8, Linux Compatible
- Non Volatile Setup Save
- Single 5VDC Power Supply



RoHS COMPLIANT

Ordering Information

Item Codes	Part#	Description
ADL855PC-373C-G5	292248	1.0 GHz, 512k L2 cache, PC/104+ CPU
ADL855PC-370-G5	292249	1.5Ghz, 1024k L2 cache, PC/104+ CPU
ADL855PC-738-G5	292246	1.4 GHz, 2048k L2 cache, PC/104+ CPU
ADL855PC-745-G5	292245	1.8 GHz, 2048k L2 cache, PC/104+ CPU
Additional options are available, please contact our sales department.		
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
Thermal Solutions		
ADLTS2HSS	292054	2 piece Heat-Sink Thermal Solution
ADLTSHSS-Fan	293057	Companion fan for ADLTS2HSS
ADLTS2Pipe	293054	2 Heat-Pipe Thermal Solution
ADL855PC-SPREADER2	293152	.6" Heat Spreader
ADL855PC-SPREADER3	293153	1" Heat Spreader
Optional Cables		
ADL855PC-CK	293045	Development cable kit
ADL8XX-PC	100-9700	ADL power cable for ADL855/LX8/S15
Individual development cables are available, please contact our sales department.		

Description

The ADL855PC 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 CRT or LVDS LCD. The memory is added via an SODIMM200 socket and can accept up to 1Gigabyte of DDR333 SDRAM.

The ADL855PC power management incorporates ACPI/APM functions, which utilizes Intel's Advanced SpeedStep® (Pentium® M only) feature. The standard ADL855PC also incorporates PCI 2.2 Bus, EIDE, 4xUSB 2.0, 2xRS232 COM ports, PS/2 Keyboard and Mouse, parallel printer, AC97 Sound (0°C to +70°C only), and 10/100MBit LAN 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.

Data subject to change without notice

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Feature Technical Specifications

FEATURES	FUNCTIONS	REMARKS	OPTIONS
Processor/CPU:	Intel® Pentium® M / Celeron® M	1.0GHz - 1.8GHz	
L2-Cache:	2048KB / 1024KB / 512KB	CPU Dependent	
CPU-Clock:	1.0GHz	Celeron® M	
CPU-Clock:	1.4GHz	Pentium® M	
CPU-Clock:	1.5GHz	Celeron® M	
CPU-Clock:	1.8GHz	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* – 1024MB	ECC Memory Supported	
Video Controller:	855GME Intel Extreme Graphics 2		
Video Memory:	1 – 32MB UMA DDR-RAM	64MB Window	
Video Interfaces:	VGA-Analog, LVDS		
Video Channel 1:	1600x1280x16 @ 85Hz max		
Video Channel 2:	LVDS 18/24/36/48 Bit	36/48 requires second cable	
Real Time Clock:	Yes	External Battery Required for RTC	
LAN-Controller:	Intel® ICH4 – ext. PHY 82562EZ	10/100 MBit with PXE and RPL	
AC97-Controller:	Intel® ICH4 – AC97 V2.3	ALC650 Codec 5.1 Sound	0°C to +70°C only
SMBus-Controller:	Intel® ICH4 – SMBus		
USB2-Controller:	4 Ports V2.0		
Flash BIOS:	512KB/1MB		2MB available on version G5
BIOS:	Award		
Power Management Control:	ACPI / APM		
EIDE-Controller:	PIO 1-4 and UDMA 100*/66*/33	Primary Master/Slave	*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:	PS/2-USB		
Mouse:	PS/2-USB		
COM1:	RS232	115KBit max,	TTL solder
COM2:	RS232	115KBit max,	TTL solder
LPT1:	Uni/ECP/EPP	Shared with FDC	
Floppy Disk:	Available	Shared with LPT	
ISA-Bus:	Fintek F85226F	LPC-ISA-Bridge, 16-Bit	
PCI-Bus:	V2.2	Support For 4 Masters	Spec: PC/104 Plus V2.0
Power Supply:	5volt +/-250mV	ADLPS104CF recommended	
Power consumption:	TBD.		
Operating Temperature: (typ. ambient)	Celeron® M 1.0GHz: -20°C to +75°C Pentium® M 1.4GHz: -20°C to +60°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 With ADL Embedded Solutions thermal solutions	Extended Temperature -40°C to +85°C Available Provided CPU is kept below 100°C at all times and the installation has sufficient thermal path to dissipate
Dimensions:	4.5" x 3.8" (115mm x 96mm)		
Weight: (gr)	120 g		

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