



ADL855PC - Pentium® M / Celeron® M CPU 0.6GHz - 1.8GHz

Features

- Intel® Pentium® M / Celeron® M, 0.6GHz - 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
- Non Volatile Setup Save
- Single 5VDC Power Supply



Ordering Information

Item Codes	Part#	Description
ADL855PC-600C-G5	292243	0.6 GHz, 512k L2 cache, PC/104+ CPU
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.		
SoDIMM200 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	1024MB DDR 333MHz STD TEMP
DDR-DRAM512-3EX	994928	512MB DDR 333MHz -40°C - +85°C
DDR-DRAM1024-3EX	994028	1024MB DDR 333MHz -40°C - +85°C
DDR-ECC512	TBD	512MB ECC DDR 333MHz STD TEMP
DDR-ECC1024	TBD	1024MB ECC DDR 333MHz STD TEMP
DDR-ECC512-EX	995928	512MB ECC DDR 333MHz -40°C - +85°C
DDR-ECC1024-EX	995026	1024MB ECC DDR 333MHz -40°C - +85°C
Thermal Solutions		
ADLTS2HSS	292054	2 piece Heat-Sink Thermal Solution
ADLTS2HSS-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, 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



Feature Technical Specifications

FEATURES	FUNCTIONS	REMARKS	OPTIONS
Processor/CPU:	Intel® Pentium® M / Celeron® M	0.6GHz - 1.8GHz	
L2-Cache:	2048KB / 1024KB / 512KB	CPU Dependent	
CPU-Clock:	0.6GHz	Celeron® M	
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	*128MB - 256MB available on request
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	
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 0.6GHz: -20°C to +75°C 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 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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