



### ADL945PC

Intel® Core™ 2 Duo / Core™ Duo / Core™ Solo: 1.0GHz - 2.16GHz

#### Features

- Intel® Core™ 2 Duo / Core™ Duo / Core™ Solo
- 1.0GHz - 2.16GHz
- Power Management
- 512MB - 2048MB DDR2-DRAM
- CRT / LCD interface on-board
- 10/100 Base-T LAN-Ethernet
- 1000 Base-T LAN-Ethernet
- 6x USB 2.0 Ports
- PATA Hard Disk Interface
- COM1, COM2, LPT1
- RTC and Watchdog Timer
- Windows 7, Windows 8, Linux Compatible
- Non Volatile Setup Save
- Single 5VDC Power Supply
- 2x SATA



Shown with ADL945PC-LTSPREADER



#### Ordering Information

Item Codes	Part#	Description
ADL945PC-T7400	292115	Dual Core (2) 2.16GHz, 4M cache
ADL945PC-L7400	292116	Dual Core (2) 1.5GHz, 4M cache
ADL945PC-L2400	292113	Dual Core 1.66GHz, 2M cache
ADL945PC-U2500	292112	Dual Core 1.2GHz, 2M cache
ADL945PC-440CM	292111	Single Core 1.86GHz, 1M cache
ADL945PC-423CM	292110	Single Core 1.07GHz, 1M cache*
		* Long lead-time may apply to this item
<b>Thermal Solutions</b>		
ADLTS2HSS	292054	Two piece heat sink set
ADLTS2Pipe	293054	Patented Chassis-mounted Heat pipe
ADLTS2HSS-Fan	293057	Fan for two piece heat sink set
ADL945PC-SPREADER	293162	.6" heat spreader
ADL945PC-SPREADER2	293163	1" heat spreader
ADL945PC-LTSPREADER	293166	.6" heat spreader, lightweight
<b>Standard &amp; Extended DDR-RAM</b>		
DDR2-DRAM512	TBD	DDR2-667MHz 512MB Standard Temp.
DDR2-DRAM1024	996050	DDR2-667MHz 1GB Standard Temp.
DDR2-DRAM2048	996150	DDR2-667MHz 2GB Standard Temp.
DDR2-DRAM512-EX	TBD	DDR2-667MHz 512MB Extended Temp.
DDR2-DRAM1024-EX	996051	DDR2-667MHz 1GB Extended Temp.
DDR2-DRAM2048-EX	996151	DDR2-667MHz 2GB Extended Temp.
<b>Optional Cables</b>		
ADL945PC-CK	293046	Development cable kit
ADL9XX-PC	100-9812	ADL power cable for ADL945

Individual development cables are available, please contact our sales department.

#### Description

The ADL945PC is based on the Intel® Core™ 2 Duo / Core™ Duo / Core™ Solo Processors, with clock speeds up to 2.16GHz, and the Intel® 945GM chip-set. The Intel® Generation 3.5 graphics engine is integrated into the chipset, along with the Intel® Graphics Media Accelerator 950 (Intel® GMA 950), and can drive either a CRT and/or LVDS LCD.

The memory is added by way of a SODIMM200 socket and can accept up to two Gigabytes of DDR2 DRAM. The ADL945PC power management incorporates ACPI/APM functions. The standard ADL945PC also incorporates PCI/104 Bus, EIDE, 4xUSB 2.0, 2xRS232 COM ports, PS/2 Keyboard and Mouse, parallel printer, AC97 Sound (0°C to +70°C only), separate 10/100Mbit and Gigabit LAN, and more.

ADL Embedded Solutions 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® Core™2 Duo / Core™Duo / Core™Solo		
L2-Cache:	2MB / 4MB	CPU dependent	
Front Side Bus:	533/667 MHz	CPU dependent	U2500 - 533FSB / L2400, L7400, T7400 - 667FSB
CPU-Clock:	1.07GHz - 2.16GHz		
Memory 200pin DDR2 SODIMM:	512MB - 2048MB		
Video Controller:	945GM integrated Gen 3.5 engine	Intel® Graphics Media Accelerator 950 (Intel® GMA 950)	
Video Memory:	8MB UMA / 224MB DVMT		
Video Interfaces:	VGA-Analog, CRT, LVDS		
Video Channel 1:	2048 x 1536		
Video Channel 2:	1600 x 1200		
Real Time Clock:	Yes	External Battery Required for RTC	
LAN-Controller:	INTEL – ICH7M – ext. PHY 82562GZ	Intel 573E for 10/100/1000	
AC97-Controller:	INTEL – ICH7M – AC97 V2.3	ALC655 Codec 5.1 Sound	0°C to +70°C only
SMBus-Controller:	INTEL – ICH7M – SMBus		
USB2-Controller:	6 Ports V2.0		
Flash BIOS:	512KB		
BIOS:	Award		
Power Management Control:	ACPI / APM		
EIDE-Controller:	PIO 1-4, UDMA 100*/66*/33 as well as SATA1/2	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		
COM2:	RS232		
LPT1:	Uni/ECP/EPP	Shared with FDC	
Floppy Disk:	Available	Shared LPT port	
PCI-Bus:	V2.2	Support For 4 Masters	Spec: PC/104 Plus V2.0
Power Supply:	5volt +/-5%	ADL PS104CF possible	HPS3512 or HPSC104-SER
Power consumption:	2.5 Amps - 11 Amps max @ +5V	CPU dependent	
Operating Temperature: (typ. ambient)	-25°C to +70°C	-40°C to +85°C available upon request	Provided CPU is kept below 100°C at all times with sufficient thermal path to dissipate
Dimensions:	4.5" x 3.8" (115mm x 96mm)		
Weight: (gr)	93 g		