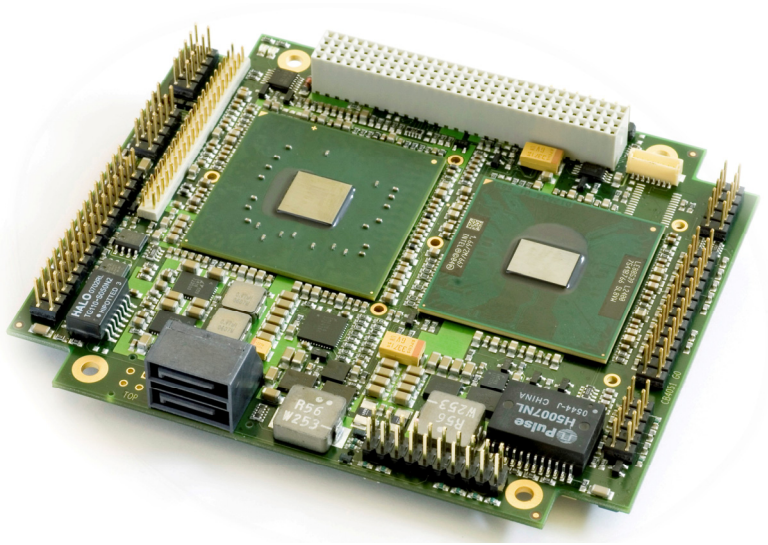
ADL945PC

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
- 256MB - 2048MB DDR2-DRAM
- CRT / LCD interface on-board
- 10/100 Base-T LAN-Ethernet
- 1000 Base-T LAN-Ethernet
- 6x USB2.0 Ports
- PATA Hard Disk Interface
- COM1, COM2, LPT1
- RTC and Watchdog Timer
- Non Volatile Setup Save
- Single 5VDC Power Supply
- 2x SATA



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
Thermal Solutions		
ADLTS2HSS	292054	Two piece heat sink set
ADLTS2Pipe	293054	Patented Chassis-mounted Heat pipe
ADLTS2HSS-Fan	293052	Fan for two piece heat sink set
Other options may be available, please contact our sales department.		
Standard DDR-RAM		
DDR2-DRAM512	996925	512MB 666MHz 200pin SODIMM
DDR2-DRAM1024	996025	1024MB 666MHz 200pin SODIMM
DDR2-DRAM2048	996125	2048MB 666MHz 200pin SODIMM
Optional Cables		
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 chipset, 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, separate 10/100Mbit and Gigabit LAN, and more.

ADL 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

Advanced Digital Logic, Inc.; 4411 Morena Blvd., Suite 101; San Diego, CA 92117-4345
Ph. 858 490-0597 F. 858 490-0599; e-mail: sales@adl-usa.com; web: www.adl-usa.com

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:	256MB* - 2048MB	*256MB available by special request only.	
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	
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 +60°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:	4.550" x 3.775"		
Weight: (gr)	93 g		