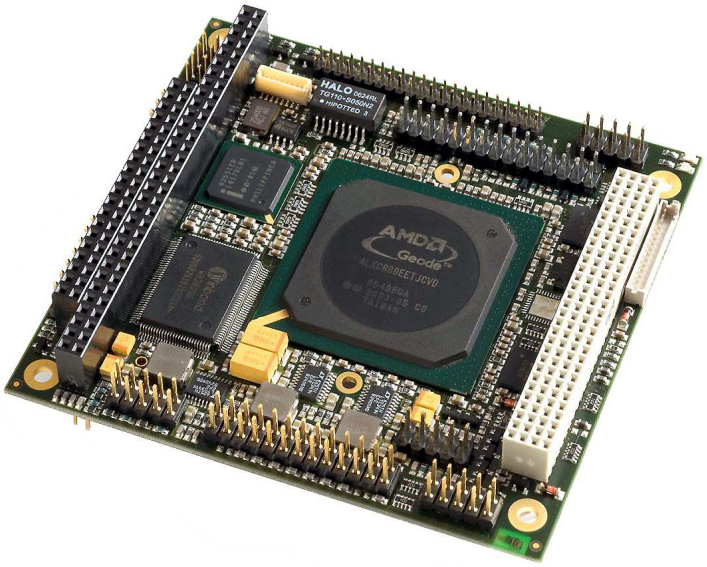
ADLLX8PC - AMD Geode™ LX800

Features

- AMD Geode™ LX800 / LX900*
- 500MHz / 600Mhz*
- Power Management *(ACPI 2.0 & APM 1.2)*
- SoDIMM200 up to 1GB DDR-400
- Built In 2GB SSD Flash *(optional)*
- Built In Geode LX800 @ 0.9W
- CRT/LCD on-board
- 10/100 Base-T LAN-Ethernet
- 4x USB V2.0 Ports
- EIDE Hard Disk Interface
- COM1, COM2, LPT1
- RTC and Watchdog Timer
- AC97 Sound Interface *(in & out)*
- Single 5VDC Power Supply
- PC/104-Plus BUS Connector



*AMD Geode ™ LX900 only available for special/custom designs

Ordering Information

Item Codes	Part#	Description
ADLLX8PC-F0	292035	LX800 16-Bit ISA PC/104-Plus No Flash
ADLLX8PC-F2	292033	LX800 16-Bit ISA PC/104-Plus w/2GB Flash
ADLLX8PC-F4*	292036*	LX800 16-Bit ISA PC/104-Plus w/4GB Flash
ADLLX8PC	292034	LX800 8-Bit LPC ISA PC/104-Plus No Flash
		*check availability
Cooling Options		
ADLTS1LX	292055	Heat Sink, passive
ADLTS2LX	292056	Heat Spreader, .6”
ADLTS3LX	292057	Heat Spreader, 1”
Standard Memory Options		
DDR-DRAM128-3	994715	128MB DDR333 for 855/LX800
DDRRAM256-3LX	994823	256MB DDR333 for 855/LX800
DDR-DRAM512-3LX	994923	512MB 333MHz DDR
DDR-DRAM1024-3LX	994023	1024MB 333MHz DDR
Extended Temp, Memory Options		
DDR-DRAM256-3EX	994828	256MB 333MHz DDR -40° to +85° C
DDR DRAM512-3EX	994928	512MB 333MHz DDR -40° to +85° C
DDR-DRAM1024-3EX	994028	1024MB 333MHz DDR -40° to +85° C
Accessories and Options		
ADL855PC-CK	293045	Dev. Cable Kit, or ADL855/LX8PC
ADLCF-II-S	989010	Compact Flash to IDE Type II Single
ADLCF-II-D	989020	Compact Flash to IDE Type II Dual
ADLPS104CF	293017	PC/104+ Pwr Supply, +7-28VDC IN, 5VDC OUT.

Other options may be available

Description

The ADLLX8PC is based on the AMD Geode™ LX embedded processors, with clock speeds up to 600MHz. It incorporates the full functionality of much larger boards into the compact and expandable form factor of PC/104-Plus. At just 96mm x 90mm in size with a processor power load as little as 0.9W, the ADLLX8PC is ideal for space constrained rugged, mobile and remote applications.

The graphics controller is integrated into the AMD Geode™ chipset and can drive either a CRT though the VGA port, or LCD by way of an 18-bit LVDS interface. Up to 1GB of DDR-400 SDRAM can be installed into the SoDIMM200 socket. The ADLLX8PC power management incorporates ACPI/APM functions. The standard ADLLX8PC also incorporates PCI 2.2 Bus, EIDE,, 4xUSB 2.0, 2xRS232 COM ports, PS/2 Keyboard and Mouse, parallel Printer, AC97 compatible sound with SPDif In/Out, 10/100MBit LAN and more. Optionally, the ADLLX8PC may be equipped with a built-in 4GB SSD flash. This option will dramatically reduce the overall system footprint by providing a means of full system operation without the need for any type of external media connection The ADLLX8PC meets all PC/104-Plus electrical specifications, so it can be “dropped-in” to any compliant system without changes. With its fast processor and its low power consumption, the ADLLX8PC is ideal for embedded semi-custom solutions.

Data is subject to change without notice

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Technical Specifications

FEATURE	FUNCTION	REMARKS	OPTIONS
Item code	ADLLX8PC		
CPU	Geode LX800		Contact Sales for LX900
2nd Level Cache	128KB		
Performance (MHz)	500MHz		
BIOS	Phoenix Award 6.1		
Power Management	ACPI 2.0 / APM 1.2	Power states S0, S4, S5 supported	
DRAM Min-Max (MB)	SoDIMM200 512MB-1GB DDR400		128MB and 256MB available on request
Mouse, Keyboard	PS/2, USB		
Floppy Interface	Shared interface with LPT		
IDE Interface*	PATA (EIDE)	PIO 0/1/2/3/4 - DMA33/66/100, Primary Only	*Optional Built-in 2GB SSD Flash
COM1	RS232/RS422/RS485	RS422/485 optional	
COM2	RS232/RS485/RS422	RS422/485 optional	
COM3	-		
COM4	-		
LPT1	Shared interface with FDC	Uni/ECP/EPP/FDC	
USB	4x USB 1.1 / 2.0	USB 1-3 cfg HOST, USB 4 cfg DEVICE	
LAN	Intel® 82551ER	10/100 Base-T	
Audio	AC97:AMD CS5536 / Realtek ALC655	Anlg In: Lin/Mic/PC Beep, Anlg Out:Lin, SPDif In/out	
Video Controller	Geode LX800		
Video Memory	254MB		
CRT Video	1920 x 1440 max resolution		
LCD Interface	18-Bit LVDS		
LCD Resolution	1600 x 1200 max		
Video Input	-		
EEPROM Support	yes		
Watchdog	yes		
other	TPM Interface		
Power Normal (typ)	5V 1.5A		
Power Suspend	TBD		
Cooling Type	Passive.		
Operating Temp.	-20°C to +70°C		
Extended Temp.	optional		Provided processor core temperature is kept below 85° C

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