

AMD Geode™ LX800 CPU 500MHz - MSM800XEL/XEV

Feature

- AMD Geode™ LX800
- 500MHz
- soldered 256MB DRAM
- CRT (VGA)
- LCD (TFT)
- 10/100 Base-T LAN-Ethernet
- 4x USB V2.0 Ports
- PATA- Hard Disk
- COM1, COM2, LPT1
- RTC and Watchdog Timer
- AC97 Sound Interface (*in & out*) - XEV only
- Single 5VDC Power Supply
- PC/104-Plus BUS Connector (*optional*)
- PC/104-16-bit



Picture shows MSM800XEV



Ordering Information

Item Codes	Part#	Description
MSM800XEV	802120	500MHz, soldered 256 DRAM
MSM800XEL	802125	500MHz, soldered 256 DRAM

Options

-CF	807007	Compact Flash Socket (<i>Typell</i>)
-L+	807006	PC/104-plus Connector (<i>long, stack-through</i>)
-P+	807005	PC/104-Plus Connector (<i>short</i>)
MSM800-DVICON	803042	External DVI board
MSM800-LVDSCON	803044	External LVDS board
MSM800-CK	803035	Cable-Kit

Cooling Options

LXHS-SM	807041	Small Heat Sink
LXHS-LG	807042	Large Ribbed Heat Sink
LX8-SPREADER	807043	Heat Spreader, Chassis Mount

*Other options may be available,
Please contact your Sales Representative*

Description

With the MICROSPACE MSM800XEV/MSM800XEL Advanced Digital-Logic offers an embedded computer board based on the AMD Geode™ LX800 on a PC/104 size board.

The MSM800XEV computer board runs with a fan-less AMD Geode™ LX800 CPU.

The standard MSM800XEV/MSM800XEL also incorporates 4x USB V2.0, VGA/LCD, LAN and the possibility of expandable functions via PC/104-Plus (ISA and/or PCI). With the onboard graphic controller, up to 2 parallel displays (TTL, CRT) may show 2 identical pictures. The video controller supports TFT Displays (320 x 240 to 1600 x 1200) and up to 1920x1440 SVGA. The 2 serial interfaces are available as RS232C.

The MSM800XEL is the same Board as the MSM800XEV, it is a depopulated version (less sound codec, RTC battery & heatsink). All Geode™ LX800 series boards use 3.3V I/O on the PC104-Plus Bus. Please contact your sales representative for compatible peripheral boards as well as adding the heatsink and/or options.

Data is subject to change without notice

Technical Specifications

FEATURE	FUNCTION	FUNCTION	REMARK
Item code	MSM800XEV	MSM800XEL	
Processor	AMD Geode™ LX800	AMD Geode™ LX800	
2nd Level Cache	128K	128K	
Performance (MHz)	500MHz/333MHz*	500MHz/333MHz*	* minimal savings
DRAM Min-Max (MB)	Soldered 256MB DRAM	Soldered 256MB DRAM	
Power Management	ACPI	ACPI	
DiskOnChip Socket	--	--	
ISA Bus	16-Bit ITE8888	16Bit ITE8888	
PCI Bus	Optional	Optional	
CompactFlash Socket	Optional (1x type I/II)	Optional (1x type I/II)	
Mouse, Keyboard	PS/2, USB	PS/2, USB	
Floppy Interface	yes	yes	
IDE Interface	E-IDE	E-IDE	
Onboard IDE-Flash	CF option	CF option	
COM1	RS232	RS232	
COM2	RS232	RS232	
LPT1	yes	yes	
USB	4x USB 2.0	4x USB 2.0	
LAN	10/100Base-T	10/100Base-T	
Audio	AC97 in & out	-	
Video Controller	AMD Geode™ LX800	AMD Geode™ LX800	
Video Datapath	GeodeLink™	GeodeLink™	
Video Memory	Max. 24MB	Max. 24MB	
CRT Video	yes	yes	
LCD Interface	yes	yes	
LCD Resolution	24-bit	24-bit	
Video Input	--	--	
EEPROM Support	yes	yes	
Watchdog	yes	yes	
other	ISA Bus, IrDA, PCI Bus optional	ISA Bus, IrDA, PCI Bus optional	
Power normal	5V/~1.4A (@256/500MHz)	5V/~1.4A (@256/500MHz)	
Power Suspend			
Cooling Type	optional	optional	can be added
Operating Temp.	-25°C to +70°C	0°C to +60°C	
Extended Temp.	-40°C to +85°C	-	
Weight (gr)	0.1kg	0.1kg	
RTC Battery	yes	optional	can be added

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