

AMD Geode™ LX800 CPU 500MHz - MSM800SEV/SEL/BEV – MSM900BEV

Features

- AMD Geode™ LX800
- 500MHz
- 128MB - 1024MB DDR RAM
- CRT (VGA)
- LCD (TFT)
- 10/100 Base-T Ethernet LAN
- 4x USB 2.0 Ports
- PATA- Hard Disk Interface
- COM1, COM2, LPT1
- RTC and Watchdog Timer
- AC97 Sound Interface (SEV/BEV only)
- Single 5VDC Power Supply
- PC/104-Plus Bus Connector (optional)
- PC/104-16-bit (BEV only)



MSM800SEV-P+ with LXHS-SM



Ordering Information

Item Codes	Part#	Description
MSM800SEL	802105	500MHz, 128MB-1024MB DDR333-RAM
MSM800SEV	802100	500MHz, 128MB-1024MB DDR333-RAM
MSM800BEV	802110	500MHz, 128MB-1024MB DDR333-RAM
MSM900BEV	802160	600MHz, 128MB-1024MB DDR333-RAM
Board Options		
-CF	807007	Compact Flash Socket (Typell)
-L+	807006	PC/104-plus Connector (long, stack-through)
-P+	807005	PC/104-plus Connector (short)
MSM800-DVICON	803042	External DVI board
MSM800-LVDSCON	803044	External LVDS board
MSM800-CK	803035	Cable-Kit
Memory Options		
DDR-DRAM128-3	994715	128MB 333MHz DDR
DDR-DRAM256-3	994825	256MB 333MHz DDR
DDR-DRAM512-3LX	994923	512MB 333MHz DDR for LX
DDR-DRAM1024-LX	994023	1024MB 333MHz DDR for LX
DDR-DRAM256-3EX	994828	256MB 333MHz DDR -40C to +85C
DDR-DRAM512-3EX	994928	512MB 333MHz DDR -40C to +85C
DDR-DRAM1024-3EX	994028	1024MB 333MHz DDR -40C to +85C
Cooling Options		
LXHS-SM	807041	Small Heat Sink
LXHS-LG	807042	Large Heat Sink
LX8-SPREADER	807043	Heat Spreader, Chassis Mount

Other options may be available,
Please contact your Sales Representative

Description

With the MICROSPACE MSM800SEV/MSM800SEL/MSM800/900BEV, Advanced Digital-Logic offers an embedded PC/104 sized computer board based on the AMD Geode™ LX800 processor.

The MSM800SEV and MSM800/900BEV computer boards run with a fan-less AMD Geode™ LX800 CPU.

The standard MSM800SEV/MSM800SEL/MSM800/900BEV also incorporates 4x USB 2.0, 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 24MB (max) video-memory is UMA shared with the DDR-RAM. The 2 serial interfaces are available as RS232C.

The MSM800SEL is the same Board as the MSM800SEV, it is a depopulated version (less sound codec, RTC battery & heatsink). All Geode LX800 series boards uses 3.3V I/O on the PC104+ Bus.

Please contact your Sales Representative for compatible peripheral boards and cooling solutions.

Data is subject to change without notice

Technical Specifications

FEATURE	MSM800SEV	MSM800SEL	MSM800/900BEV
Part Number	802100	802105	802110
CPU	AMD Geode™ LX800	AMD Geode™ LX800	AMD Geode™ LX800
2nd Level Cache	128K	128K	128K
Performance (MHz)	500MHz / 333MHz*	500MHz / 333MHz*	500/600MHz / 333MHz*
DRAM Min-Max (MB)	128MB-1024MB DDR-RAM	128MB-1024MB DDR-RAM	128MB-1024MB DDR-RAM
Power Management	ACPI	ACPI	ACPI
DiskOnChip Socket			
CompactFlash Socket	Optional (1x type I/II)	Optional (1x type I/II)	Optional (1x type I/II)
Mouse, Keyboard	yes	yes	yes
Floppy Interface	yes	yes	yes
IDE Interface	E-IDE	E-IDE	E-IDE
Onboard IDE-Flash	CF option	CF option	CF option
COM1	RS232	RS232	RS232
COM2	RS232	RS232	RS232
LPT1	yes	yes	yes
USB	4x USB 2.0	4x USB 2.0	4x USB 2.0
LAN	10/100	10/100	10/100
Audio	AC97 in / out	-	AC97 in / out
Video Controller	AMD Geode™ LX800	AMD Geode™ LX800	AMD Geode™ LX800
Video Datapath	GeodeLink™	GeodeLink™	GeodeLink™
Video Memory	Max. 24MB	Max. 24MB	Max. 24MB
CRT Video	yes	yes	yes
LCD Interface	yes	yes	yes
LCD Resolution	24-bit	24-bit	24-bit
Video Input	-	-	-
EEPROM Support	yes	yes	yes
Watchdog	yes	yes	yes
other	ISA Bus, IrDA, PCI Bus optional	ISA Bus, IrDA, PCI Bus optional	ISA Bus, IrDA, PCI Bus optional
Power normal	5V/~1.4A (@256/500MHz)	5V/~1.4A (@256/500MHz)	5V/~1.4A (@256/500MHz)
Power Suspend			
Cooling Type	passive	optional	passive
Operating Temp.	-25°C to +70°C	0°C to +60°C	-25°C to +70°C
Extended Temp.	-40°C to +85°C	-	-40°C to +85°C
Weight (gr)	0.1kg	0.1kg	0.1kg
RTC Battery	yes	optional	yes
*Minimal power savings			

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