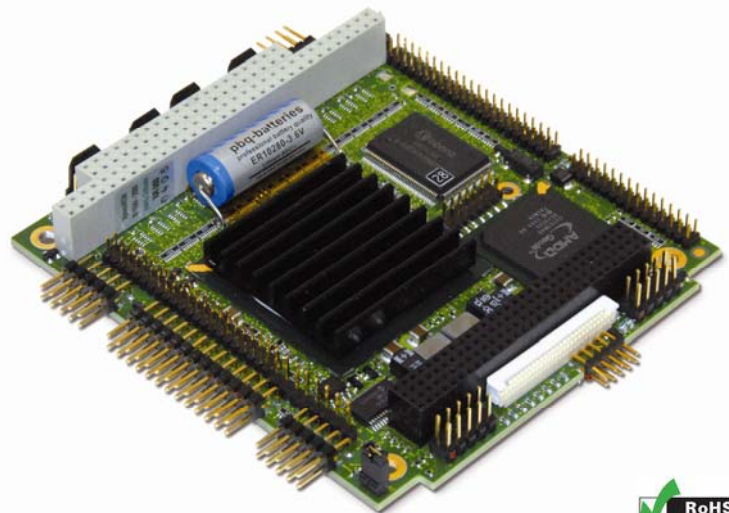


AMD Geode™ LX800 CPU 500MHz - MSM800SEV/SEL/BEV – MSM900BEV

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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