



AMD Geode LX800 - 500MHz - MSEP800

Feature

- AMD Geode LX800
- 500MHz Processor
- SODIMM Socket (for memory up to 1GB)
- 24Bit Digital I/O
- 10/100 Base-T LAN-Ethernet
- 1Gbit Ethernet
- 4x USB V2.0 Ports
- 1 PATA (IDE) Ports
- COM1, COM2, (232/422/485) (COM3/4 TTL optional)
- RTC and Watchdog Timer
- PC/104(+) BUS Connector (optional for light version)
- CF Type II Socket (not in light version)
- AC97 Stereo Sound
- 10-30VDC Input



Ordering Information

Item Codes	Part#	Description
MSEP800	804050	500MHz - Geode, 128K Cache

Options

MSEPCONI	804012	Plug-in board with COM3/4, LPT, PS2
MSEP-RS422	804020	Converter for 1 RS232 to 422 opto
MSEP-RS485	804021	Converter for 1 RS232 to 485 opto.
MSEPCONM	804010	Plug-in board w/DVI, sound (in/out) mic in
MSEPPWR	804014	Filtered power in board, 10-30VDC IN

Memory Options

DDR-DRAM128-3	994715	128MB 333MHz DDR
DDR-DRAM256-3	994825	256MB 333MHz DDR
DDR-DRAM512-3	994923	512MB 333MHz DDR
DDR-DRAM1024-3	994023	1024MB 333MHz DDR
DDR-DRAM256-3EX	994828	256MB 333MHz DDR -40C to +85C
DDR-DRAM512-3EX	994926	512MB 333MHz DDR -40C to +85C
DDR-DRAM1024-3EX	994026	1024MB 333MHz DDR -40C to +85C

Other options may be available

Description

With the MICROSPACE Embedded Board MSEP800/MSM800L Advanced Digital-Logic offers an embedded computer board based on the AMD processor Geode LX800. These boards are in the EPIC size standard. The standard MSEP800 incorporates 4x USB V2.0, graphics, LAN1&2, COM1 & COM2 with COM3&4 optional and the possibility of expandable functions via PC/104plus (ISA and PCI) as well as specialized expansion Boards (see options).

Data is subject to change without notice



Feature Technical Specifications

FEATURES	FUNCTIONS	FUNCTIONS	COMMENTS
Item code	MSEP800	MSEP800L	
CPU	Geode LX800	Geode LX800	
2nd Level Cache	128kB	128kB	
Performance (MHz)	500MHz	500MHz	
DRAM Min-Max (MB)	128MB—1GB DDR DRAM	128MB—1GB DDR DRAM	
Power Management	yes	yes	
DiskOnChip Socket			
CompactFlash Socket	1x type II	-	
Mouse, Keyboard	Optional or USB	USB	Option CON I for PS/2
Floppy Interface	Microfloppy 26 pin	Microfloppy 26 pin	
IDE Interface P-ATA	1x	1x	
IDE-Interface S-ATA	-	-	
COM1	RS232/422/485	RS232	
COM2	RS232/422/485	RS232	
COM3 (RS232 or 422)	TTL	-	CONI for RS232
COM4 (RS232 or 422)	TTL	-	CONI for RS232
LPT1	on Expansion Board	-	
USB	4x V2.0(+ 2 headers)	4x V2.0(+ 2 headers)	
LAN-Port A	10/100Base-T	10/100Base-T	Intel 82551ER
LAN-Port B	1Gbit Ethernet	-	Intel 85241
Audio	AC97 Stereo	AC97 Stereo	
Video Input	optional	-	Uses SA7111
Video Controller	Geode LX800	Geode LX800	
Video Datapath	PCI	PCI	
Video Memory	8-16 MB UMA	8-16 MB UMA	
DVI Display	optional	-	
Digital I/O	24Bit	-	
EEPROM Support	yes	yes	
Watchdog	yes	yes	
RTC Battery	Included 410 mAh	Optional (not included)	
Power Normal	10V-30V 10W (typ.)	10V-30V 10W (typ.)	
Power Suspend	0.1W (typ.)	0.1W (typ.)	
Cooling Type	passive	Passive (no heatsink)	
Operating Temp.	0°C to +60°C	0°C to 60°C	
Extended Temp.	-40°C to +70°C	-	
Size (mm)	165x115x36	165x115x36	
Weight (gr)	280gr	280gr	
MTBF	>200'000h	>200'000h	

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