

AMD Geode LX800 - 500MHz - MSEP800
Intel Celeron-M/Pentium-M 0.8GHz to 1.8GHz - MSEP855

Feature

- AMD Geode LX800 or Intel CeleronM, Pentium M
- 500MHz and up to 1.8GHz
- SODIMM Socket
- 24Bit Digital I/O
- 10/100 Base-T LAN-Ethernet
- 1Gbit Ethernet
- 4x USB V2.0 Ports
- 1 or 2 PATA (IDE) Ports
- COM1, COM2, LPT1
- RTC and Watchdog Timer
- PC/104(+) BUS Connector
- CF Type II Socket
- AC97 Stereo Sound
- 10-30VDC Input



Ordering Information

Item Codes	Part#	Description
MSEP800	804050	500MHz - Geode, 128K Cache
MSEP855	804000	0.8 - 1.8GHz, (smartCore dependent see below)

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

SmartModules for MSEP855

SM855-C120	805190	Celeron-M 800MHz, 0 L2 Cache
SM800-C300	805166	Celeron-M 600MHz, 512k L2 Cache
SM822-C373	805163	Celeron-M 1.0GHz, 512k L2 Cache
SM855-P738	805164	Pentium M 738, 1.4GHz, 2048k L2 Cache
SM855-P745	805168	Pentium-M 745, 1.8GHz, 2048k L2 Cache

Other options may be available

Description

With the MICROSPACE Embedded Board MSEP800/ MSEP855 Advanced Digital-Logic offers an embedded computer board based on either the AMD processor Geode LX800 or Intel Celeron-M/Pentium-M. These boards are in the EPIC size standard.

The MSM800SEV embedded computer board runs with a fanless AMD Geode-LX800 CPU.

The standard MSEP800/MSEP855 also incorporates USB V2.0, graphics, LAN1&2, COM1 & COM2 and the possibility of expandable functions via PC/104plus (ISA and PCI) as well as specialized expansion Boards (see options). Up to 3 parallel displays (VGA, DVI, LVDS) may show 3 similar or 2 different pictures.

Data is subject to change without notice

Feature Technical Specifications

FEATURES	FUNCTIONS	FUNCTIONS	REMARKS
Item code	MSEP800	MSEP855	
CPU	Geode LX800	SM855-xxx	
2nd Level Cache	128kB	CPU dependent	varies
Performance (MHz)	500MHz	800MHz (up to 1.4GHz)	
DRAM Min-Max (MB)	128MB DDR DRAM, max. 1GB	128MB DDR DRAM, max. 1GB	
Power Management			
DiskOnChip Socket			
CompactFlash Socket	1x type II	1x type II	
Mouse, Keyboard	USB	USB	
Floppy Interface	Microfloppy	Microfloppy	26pin
IDE Interface P-ATA	1x	2x	
IDE-Interface S-ATA	-	-	
COM1	RS232	RS232C	
COM2	RS232	RS232C	
COM3	optional	optional	RS232 or 422 on Expansion Board
COM4	optional	optional	RS232 or 485 on Expansion Board
LPT1	optional	optional	on Expansion Board
USB	4x V2.0	4x V2.0	
LAN-PortA	10/100Base-T	10/100Base-T	
LAN-Port B	1Gbit Ethernet	1Gbit Ethernet	
Audio	AC97	AC97	Stereo
Video Controller	Geode LX800	Incl. 855GME Extreme Graphic	
Video Datapath	PCI	64 Bit	
Video Memory	8-16 MB UMA	64MB	
DVI Display	optional	optional	on Expansion Board
Digital I/O	24Bit	24Bit	
EEPROM Support	yes	yes	
Watchdog	yes	yes	
Power Normal	10V-30V 10W (typ.)	10V-30V 18W (typ.@800MHz)	
Power Suspend	3W (typ.)	8W (typ)	
Cooling Type	passive	Passive/active	
Operating Temp.	0°C to 50°C	0°C to 50°C	
Extended Temp.	TBD	TBD	
Size (mm)	165x115x36	165x115x36	
Weight (gr)	280gr	350gr	
MTBF	>200'000h	>200'000h	

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