

Intel Celeron-M/Pentium-M 0.8GHz to 1.8GHz - MSEP855(L)

Feature

- Intel Celeron M, Pentium M
- 600MHz up to 1.8GHz
- SODIMM Socket
- 24Bit Digital I/O (not in light version)
- 10/100 Base-T LAN-Ethernet
- 1Gbit Ethernet (not in light version)
- up to 6x USB V2.0 Ports
- 1 or 2 PATA (IDE) Ports
- COM1, COM2, LPT1,
- 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 Wide Range Input



Ordering Information

Item Codes	Part#	Description
MSEP855	804000	0.8 - 1.8GHz, (smartCore dependent see below)
MSEP855L	804002	Light version of MSEP855 (see back for details)
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-C140	805190	Celeron-M 1.0GHz, 0 L2 Cache
SM855-C300	805166	Celeron-M 600MHz, 512 L2 Cache
SM855-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

Memory Options

DDR-DRAM256-3	994825	256MB 333 MHz DDR
DDR-DRAM512-3	994925	512MB 333 MHz DDR
DDR-DRAM1024-3	994025	1024MB 333 MHz DDR
Extended Temp. DRAM available.		

Other options may be available

Description

With the MICROSPACE Embedded Board MSEP855 and MSEP855L Advanced Digital-Logic offers an embedded computer board based on either the Intel Celeron-M/Pentium-M. These boards are in the EPIC size standard.

The standard MSEP855 also incorporates USB V2.0, graphics, 10/100 and 1Gbit LAN-Ethernet, COM1 & COM2 and COM3&4 as TTL 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	COMMENTS
Item code	MSEP855	MSEP855L	
CPU	SM855-xxx	SM855-xxx	
2nd Level Cache	CPU dependent	CPU dependent	
Performance (MHz)	0.6 - 1.8GHz	0.6 - 1.8GHz	
DRAM Min-Max (MB)	128MB to 1GB DDR DRAM	128MB to 1GB DDR DRAM	
Power Management	ACPI		
DiskOnChip Socket			
CompactFlash Socket	1x type II	-	
Mouse, Keyboard	Optional PS/2	USB	CON1 for PS/2
Floppy Interface	Microfloppy 26 pin	Microfloppy 26 pin	
IDE Interface P-ATA	2x	2x	
IDE-Interface S-ATA	-	-	
COM1	RS232C	RS232C	
COM2	RS232C	RS232C	
COM3 (RS232 or 422)	TTL	-	MSEPCON1 I for RS232
COM4 (RS232 or 422)	TTL	-	MSEPCON1 I for RS232
LPT1	optional	optional	MSEPCON1 I
USB	6x V2.0 (+ 2 headers)	6x V2.0 (+ 2 headers)	
LAN-PortA	10/100Base-T	10/100Base-T	Intel 8255IER
LAN-Port B	1Gbit Ethernet	-	
Audio	AC97 Stereo	AC97 Stereo	
Video Controller	855GME Extreme Graphic	855GME Extreme Graphic	
Video Datapath	64 Bit	64 Bit	
Video Memory	64MB	64MB	
DVI Display	option		MSEP855CONM
Digital I/O	24Bit	-	
EEPROM Support	yes	yes	
Watchdog	yes	yes	
Power Normal	10V-30V 18W (typ.@800MHz)	10V-30V 18W (typ.@800MHz)	Wide range
Power Suspend	8W (typ)	8W (typ)	
RTC Battery	410mAh on board	-	
Cooling Type	Passive/active	Passive/active	
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)	350gr	350gr	
MTBF	>200'000h	>200'000h	

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