Intel® Pentium® M CPU 0.6 / 1.0 / 1.4 / 1.8GHz - MSM855 Series

Features

- Intel® Pentium®-M
- 0.6 / 1.0 / 1.4 / 1.8GHz
- Power Management
- 128-1024 MB DDR333 SDRAM
- Direct-X compatible Video Controller
- CRT/LCD on-board
- 10/100Base-T Ethernet LAN
- 5x USB 2.0 Ports
- PATA Hard Disk Interface
- COM1, COM2, LPT1
- RTC and Watchdog Timer
- EEPROM Setup Save
- Single 5VDC Power Supply
- PC/104 BUS (*16-bit with B versions)*
- PC/104-Plus BUS option



Ordering Information

Item Codes	Part#	Description
Baseboard Options		
MSM855	803010	Baseboard only
MSM855B	803060	Baseboard (incl. LAN transformer)
MSM855B2	803062	Baseboard (incl. 2nd LAN and transformer)
smartModule Options		
SM855-C300	805166	Celeron-M 600MHz, 512k L2 cache
SM855-C140	805192	Celeron-M 1.0GHz, 0k 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
Configuration Options And Accessories		
-CF	807008	Compact Flash Socket
-L+	807006	PC/104-plus Connector Long
MSM855-LANCON	803020	Cable & Connector Board
MSM855B-LANCON	803021	Cable & Connector Board *(for B versions)*
MSM855-CKCON	803030	Cable Kit w/Connector Board
MSM855B-CKCON	803034	Cable Kit w/Connector Board *(for B versions)*
Memory Options		
DDR-DRAM128-3	994715	128MB 333MHz DDR
DDR-DRAM256-3	994825	256MB 333MHz DDR
DDR-DRAM512-3	994925	512MB 333MHz DDR
DDR-DRAM1024-3	994025	1024MB 333MHz DDR
Extended Temp. DRAM available. . .		

*More options may be available, please contact our Sales office *

Description

The MSM855 is a member of the very successful PC/104+ family from Digital-Logic AG. This product, in conjunction with the SM855, is a high performance computer. With a 1.4GHz Pentium-M processor (SM855-P738) the MSM855 possesses performance specifications similar to a 2.8GHz Pentium-4 motherboard.

The memory can be expanded up to 1024MB with a 333MHz DDR-SODIMM module. The integrated video controller can control two independent displays *(CRT or LVDS/DVI)*. The graphic controller is compatible up to Direct-X9.0. This product includes 5x USB 2.0 ports allowing for multiple connectivity options. For multimedia applications, the 5.1 sound provides six output channels and two input channels.

The ISA Bus is generated from a PCI-ISA-bridge (B, B2 versions only), or an ITE8888 LPC Bridge Chip to provide an expansion bus for PC/104 interface Cards. Over the PC/104-Plus connector, up to four cards can be connected *(three for B versions)*.

The CPU has very low typical power consumption and uses Intel Speed-Step® to help minimize the current consumption (Pentium-M only). The BIOS allows boot from all available medias.

Data subject to change without notice

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Technical Specifications

FEATURES	MSM855	MSM855B	MSM855B2
Part Number	803010	803060	803062
CPU	Intel® Pentium® M / Celeron® M	Intel® Pentium® M / Celeron® M	Intel® Pentium® M / Celeron® M
2nd Level Cache	0-2MB (CPU dependent)	0-2MB (CPU dependent)	0-2MB (CPU dependent)
Performance (MHz)	0.6-1.8GHz	0.6-1.8GHz	0.6-1.8GHz
Chipset	Intel® 855GM / ICH4	Intel® 855GM / ICH4	Intel® 855GM / ICH4
DRAM Min-Max (MB)	DDR333-SODIMM 128-1024 MB	DDR333-SODIMM 128-1024 MB	DDR333-SODIMM 128-1024 MB
Power Management	yes	yes	yes
DiskOnChip Socket	—	—	—
CompactFlash Socket	Optional (not with L+)	Optional (not with L+)	Optional (not with L+)
Mouse, Keyboard	Yes PS/2	Yes PS/2	Yes PS/2
Floppy Interface	yes	yes	yes
IDE Interface	1x PATA	1x PATA	1x PATA
Onboard IDE-Flash	—	—	—
COM1	V24/RS232C	V24/RS232C	V24/RS232C
COM2	V24/RS232C	V24/RS232C	V24/RS232C
COM3	—	—	—
COM4	—	—	—
LPT1	yes	yes	yes
USB	6 (V2.0)	6 (V2.0)	6 (V2.0)
LAN	10/100BASE-T (transformer off board)	10/100BASE-T incl. Transformer	2x 10/100BASE-T incl. Transformer
Audio	AC97, 5.1 Sound	AC97, 5.1 Sound	AC97, 5.1 Sound
Video Controller	i855GME	i855GME	i855GME
Video Datapath	32 Bit	32 Bit	32 Bit
Video Memory	16-64 MB	16-64 MB	16-64 MB
CRT Video	analog XVGA	analog XVGA	analog XVGA
LCD Interface	DVO/LVDS	DVO/LVDS	DVO/LVDS
LCD Resolution	1600 x 1280	1600 x 1280	1600 x 1280
Video Input	—	—	—
EEPROM Support	yes	yes	yes
Watchdog	yes	yes	yes
RTC Battery	410mAh	80mAh	80mAh
Power Normal (typ)	5V/~2.5A (@512/0.6GHz)	5V/~2.7A (@512/1.0GHz)	5V/~3.4A (@512/1.4GHz)
Power Suspend	5V/~2A (@0.6GHz)	5V/~2A (@0.6GHz)	5V/~2.2A (@0.6GHz)
Cooling Type	passive	passive/active	passive/active
Operating Temp.	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C
Extended Temp.	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Weight (gr)	274	274	274
MTBF	> 200'000 h	> 200'000 h	> 200'000 h

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