

**Pentium-M CPU 0.6/1.0/1.4/1.8GHz - MSM855(B, B2)**

**Feature**

- Intel Pentium-M
- 0.6/1.0/1.4/1.8GHz
- Power Management
- 266-1024MB DDR-RAM
- Direct-X compatible Video Controller
- CRT/LCD on-board
- 100/10Base-T LAN-Ethernet (incl. transformer for B versions)
- 5x USB 2.0 Port
- E-IDE Hard Disk Interface
- COM1, COM2, LPT1
- RTC and Watchdog Timer
- EEPROM Stup Save
- Single 5VDC Power Supply
- PC/104 (ISA) BUS
- PC/104+BUS option



**Ordering Information**

Item Codes	Part#	Description
MSM855	803010	Baseboard only
MSM855B	803060	Baseboard (incl. LAN transformer)
MSM855B2	803062	Baseboard (incl. 2nd LAN and transformer)
		Choose one of the SM855-(X)
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
<b>Options</b>		
-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 version)
MSM855-CKCON	803030	Cable Kit w/Connector Board
MSM855B-CKCON	803034	Cable Kit w/Connector Board (for B version)
<b>Memory Options</b>		
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.		

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

\*\*Limited availability

**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 very fast, high performance computer and @ 1.4GHz (SM855-P738) it is about equivalent to a 2.8GHz Pentium 4 performance level in a very small form factor. The memory can be expanded up to 1024MB with a DDR-SODIMM module. The integrated video controller can control two independent displays (CRT or LVDS/DVI). This product includes 5USB (V2.0) interfaces allowing for fast connectivity options. For multimedia applications, the 5.1 sound provides 6 output channels and 2 input channels. The ISA Bus is generated from a PCI-ISA-bridge (B version only), or an LPC Bridge Chip to provide an expansion bus for PC/104 (ISA) interface Cards. Over the PC/104+ (PCI) connector, up to 4 cards can be connected (3 for B). The CPU has very low typical Power consumption and uses speedstep to keep the current consumption down (Pentium M only). The BIOS allows to boot the operating system from all possible medias. The graphic controller is compatible up to Direct-X9.0.

Data subject to change without notice

**Feature Technical Specifications**

FEATURES	FUNCTIONS		
<b>Item code</b>	MSM855	MSM855B	MSM855B2
<b>CPU</b>	Intel 855 Pentium M / Celeron M	Intel 855 Pentium M / Celeron M	Intel 855 Pentium M / Celeron M
<b>2nd Level Cache</b>	0-2MB (CPU dependent)	0-2MB (CPU dependent)	0-2MB (CPU dependent)
<b>Performance (MHz)</b>	0.6-1.8GHz	0.6-1.8GHz	0.6-1.8GHz
<b>DRAM Min-Max (MB)</b>	DDR-SODIMM 128-1024 MB	DDR-SODIMM 128-1024 MB	DDR-SODIMM 128-1024 MB
<b>Power Management</b>	yes	yes	yes
<b>DiskOnChip Socket</b>	—	—	—
<b>CompactFlash Socket</b>	Optional (not with L+)	Optional (not with L+)	Optional (not with L+)
<b>Mouse, Keyboard</b>	Yes PS/2	Yes PS/2	Yes PS/2
<b>Floppy Interface</b>	yes	yes	yes
<b>IDE Interface</b>	1x P-ATA	1x P-ATA	1x P-ATA
<b>Onboard IDE-Flash</b>	—	—	—
<b>COM1</b>	V24/RS232C	V24/RS232C	V24/RS232C
<b>COM2</b>	V24/RS232C	V24/RS232C	V24/RS232C
<b>COM3</b>	—	—	—
<b>COM4</b>	—	—	—
<b>LPT1</b>	yes	yes	yes
<b>USB</b>	6 (V2.0)	6 (V2.0)	6 (V2.0)
<b>LAN</b>	10/100BASE-T (transformer off board)	10/100BASE-T incl. Transformer	2x 10/100BASE-T incl. Transformer
<b>Audio</b>	AC97, 5.1 Sound	AC97, 5.1 Sound	AC97, 5.1 Sound
<b>Video Controller</b>	i855GME	i855GME	i855GME
<b>Video Datapath</b>	32 Bit	32 Bit	32 Bit
<b>Video Memory</b>	16-64 MB	16-64 MB	16-64 MB
<b>CRT Video</b>	analog XVGA	analog XVGA	analog XVGA
<b>LCD Interface</b>	DVO/LVDS	DVO/LVDS	DVO/LVDS
<b>LCD Resolution</b>	1600 x 1280	1600 x 1280	1600 x 1280
<b>Video Input</b>	—	—	—
<b>EEPROM Support</b>	yes	yes	yes
<b>Watchdog</b>	yes	yes	yes
<b>RTC Battery</b>	410mAh	80mAh	80mAh
<b>Power Normal (typ)</b>	5V/~2.5A (@512/0.6GHz)	5V/~2.7A (@512/1.0GHz)	5V/~3.4A (@512/1.4GHz)
<b>Power Suspend</b>	5V/~2A (@0.6GHz)	5V/~2A (@0.6GHz)	5V/~2.2A (@0.6GHz)
<b>Cooling Type</b>	passive	passive/active	passive/active
<b>Operating Temp.</b>	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C
<b>Extended Temp.</b>	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
<b>Weight (gr)</b>	250	250	250
<b>MTBF</b>	> 200'000 h	> 200'000 h	> 200'000 h

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