ADVANCED DIGITAL-LOGIC INC
Embedded Computers - smaller, faster, cooler

MICROSPACE PC/104

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
Options		
-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)
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.		

*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

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Feature Technical Specifications

FEATURES **FUNCTIONS**

Item code	MSM855	MSM855B	MSM855B2
CPU	Intel 855 Pentium M / Celeron M	Intel 855 Pentium M / Celeron M	Intel 855 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
DRAM Min-Max (MB)	DDR-SODIMM 128-1024 MB	DDR-SODIMM 128-1024 MB	DDR-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 P-ATA	1x P-ATA	1x P-ATA
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)	250	250	250
MTBF	> 200'000 h	> 200'000 h	> 200'000 h

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