



\*LAN2 only on the MSM855B2

# MSM855/B/B2

## Description

The MICROSPACE® MSM855/B/B2 has all of the standard PC interfaces plus up to two ethernet LANs (B2 version), optional DVI and LVDS interfaces (dual screen) and a sound controller. In the B/B2 version a PCI to ISA bridge is onboard and provides full ISA bus support, whereas the standard version uses an LPC to ISA bridge. The PC/104-Plus bus (ISA & PCI) and 5 USB interfaces are available as functional extensions. Power consumption (12W to 25W), cooling method, ambient working temperature and performance are directly dependent on the smartModule855-xxxx in use.

## Applications

- \_ Networked interactive multimedia applications
- \_ Dual screen applications
- \_ Image processing, video monitoring
- \_ Measurement data processing
- \_ Telecommunication devices

## Ordering information (Option/accessories)

Article	No.	Description
Option L+	807006	PC/104plus Con. long not with Opt.CF (807007)
Option CF1	807008	CF Socket Type I not with Opt.-L+ (807006)
SODIMM DDR 128MB	890669	333MHz, 200pin, noECC
SODIMM DDR 256MB	890670	333MHz, 200pin, noECC
SODIMM DDR 512MB	890671	333MHz, 200pin, noECC
SODIMM DDR 1GB	890672	333MHz, 200pin, noECC
SM855 Cooler passive	805170	for SM855 modules
SM855 Cooler active	805171	for SM855 modules
MSM855-CKCON	803030	Cablekit with connector- print for USB, 1LAN,Sound, Cables: FD, COM, LPT, PWR, PS2 extern 900mAh BackupBat.
MSFLOPPY	891001	Floppydrive, 26pin, black
MSFDCK	802600	Microfloppycable 150mm
MSM855-LANCON	803020	LANcable with connector- print RJ45 and 900mAhBat, transformer
MSM855-DVICON	803040	Converter DVO to DVI-D, TV-Out, LVDS 18/24Bit, Connectors: DVI, LVDS, TV
MSM855B-LANCON	803021	LANcable with connector- print RJ45 and 900mAhBat



ISA

PCI

Pentium® M

1.0-1.8GHz

max. 1GB RAM

1x / 2x LAN

RoHS



## Technical data

Type	MSM855	MSM855B	MSM855B2
CPU	SM855-xxx	SM855-xxx	SM855-xxx
ISA-BUS PC/104	8bit	8/16bit + DMA	8/16bit + DMA
PCI-BUS (option 807006)	Option (4slot)	Option (3slot)	Option (3slot)
PCI Express-BUS	-	-	-
2 <sup>nd</sup> Level cache (kB)	0-2048	0-2048	0-2048
Performance (MHz)	1000-1800	1000-1800	1000-1800
DRAM Min-Max (MB)	128-1024	128-1024	128-1024
CompactFlash socket (option 807008)	Option type I	Option type I	Option type I
Keyboard, mouse (PS/2)	yes	yes	yes
Boot drive	FD, HD, USB, LAN, CF	FD, HD, USB, LAN, CF	FD, HD, USB, LAN, CF
Floppy interface	yes	yes	yes
IDE interface P-ATA	1x	1x	1x
IDE interface S-ATA	-	-	-
COM1	RS232C	RS232C	RS232C
COM2	RS232C	RS232C	RS232C
COM3	-	-	-
COM4	-	-	-
LPT1	yes	yes	yes
USB (2.0)	5x	5x	5x
LAN port 1 onboard transformer	10/100BASE-T (803020 incl. transformer)	10/100BASE-T	10/100BASE-T
LAN port 2 onboard transformer	-	-	10/100BASE-T
Audio	AC97-5.1	AC97-5.1	AC97-5.1
Video controller	i855GME	i855GME	i855GME
Video memory (MB)	16-64	16-64	16-64
LCD interface	DVO	DVO	DVO
DVI interface (option 803040)	Option	Option	Option
CRT interface	yes	yes	yes
Video input	-	-	-
Watchdog	yes	yes	yes
Power normal (Vin = 5V) (typ.)	12W (1GHz)-25W	12W (1GHz)-25W	12W (1GHz)-25W
Power suspend	0.1W	0.1W	0.1W
Power management	yes	yes	yes
RTC battery onboard	external 900mAh <sup>3)</sup>	80mAh <sup>2)</sup> or external 900mAh <sup>3)</sup>	80mAh <sup>2)</sup> or external 900mAh <sup>3)</sup>
Cooling type	passive/active	passive/active	passive/active
Operating temperature	-25°C to +70°C <sup>1)</sup>	-25°C to +70°C <sup>1)</sup>	-25°C to +70°C <sup>1)</sup>
Extended operating temperature (E47)	see SM855-xxx	see SM855-xxx	see SM855-xxx
Size (W x L in mm)	90/117 x 96/99	90/117 x 96/99	90/117 x 96/99
Weight	250 g	250 g	250 g
MTBF	>200'000h	>200'000h	>200'000h
Special features 1	-	-	-
Special features 2	-	-	-
Special features 3	-	-	-
Part no.	803010 (not from stock)	803060	803062

## CPUs

Article	Description	No.	No.	No.
SM855-C140	Intel® Celeron® M C140(1.0GHz), OMB RAM	805192	805192	805192
SM855-C373	Intel® Celeron® M C373(1.0GHz), OMB RAM	805163	805163	805163
SM855-P738	Intel® Pentium® M P738(1.4GHz), OMB RAM	805164	805164	805164
SM855-P745	Intel® Pentium® M P745(1.8GHz), OMB RAM	805168	805168	805168

Manufacturer:

Distribution:

<sup>1)</sup> Depending on cooler and CPU performance. <sup>2)</sup> Typical service life of 1 year. <sup>3)</sup> Typical service life of 10 years.

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