



*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 6 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	No.	Description
Option -L+	807006	PC/104-Plus, long connector
Option -CF	807008	CompactFlash socket (without -L+)
DDR-RAM128	890669	DDR-SODIMM-Module 128MB
DDR-RAM256	890670	DDR-SODIMM-Module 256MB
DDR-RAM512	890671	DDR-SODIMM-Module 512MB
DDR-RAM1024	890672	DDR-SODIMM-Module 1024MB
Passive cooling	805170	SM855 cooling without fan
Active cooling	805171	SM855 cooling with fan
MSM855-CKCON	803030	Cable kit and PCB connector
MSFLOPPY	891001	3.5" Micro-Floppy drive (26pin)
MSFDCK	802600	Micro-Floppy cable (26pin)
MSM855-LANCON	803020	LAN cable with PCB connector and RTC-battery
MSM855-DVICON	803040	Converter with DVO to DVI + LVDS (18Bit) + TV-out
MSM855B-LANCON	803021	LAN cable for MSM855B/2



ISA

PCI

Pentium® M

0.6-1.8GHz

max.
1GB RAM

1x / 2x LAN



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 nd Level cache (kB)	0-2048	0-2048	0-2048
Performance (MHz)	600-1800	600-1800	600-1800
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	12W (600MHz)-25W	12W (600MHz)-25W	12W (600MHz)-25W
Power suspend	0.1W	0.1W	0.1W
Power management	yes	yes	yes
RTC battery onboard	external 400mAh	80mAh or external 400mAh	80mAh or external 400mAh
Cooling type	passive/active	passive/active	passive/active
Operating temperature	-25°C to +70°C ¹⁾	-25°C to +70°C ¹⁾	-25°C to +70°C ¹⁾
Extended operating temperature (E47)	see SM855-xxx	see SM855-xxx	see SM855-xxx
Size (W x L x H 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	803060	803062

CPUs

Article	Description	No.	No.	No.
SM855-C300	Intel® Celeron® M C300 (0.6GHz), OMB RAM	805166	805166	805166
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

¹⁾ Depending on cooler and CPU-performance.