

MSEBX800/855

Description

The MICROSPACE® EBX embedded computer board MSEBX8xx has all of the standard PC interfaces plus a second ethernet LAN, a video input for connecting a video camera, COM3/4, 24 bit digital IO, dual screen video (DVI, LVDS, VGA) and an AC97-5.1 sound controller. In contrast to the PC/104-Plus cards, all interfaces are connected to standard plugs; this means low-cost, cable-free housing integration. The PC/104-Plus bus (32 bit PCI, ISA), the MiniPCI base and 6 USB interfaces are available as functional extensions. The power consumption (12W to 25W), the cooling method, the ambient working temperature, and performance are all directly related to the choice of smartModule855-xxxx.

Applications

- _ Image processing
- _ Dual screen information terminals
- _ Control of interactive devices via USB or up to 4x COM

Ordering information (Option/accessories)

Article	No.	Description
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
Option L+	807006	PC/104plus Con. long not with Opt.CF (807007)
Option P+	807005	PC/104plus Con. short
Option-Ishort	807015	PC/104 ISA Connect.short
Option-ILong	807016	PC/104 ISA Connect.long
Option CF2	807007	CF Socket Type II not with Opt.-L+ (807006)
MSEBX855-PCICONV-V02	811205	MSEBX855-PCICONV PCI-Raisercard for PCI standart adapters
MSEBX855-CK	811212	Cablekit: 1xLPT,FD-Cable, 4xCOM, 2xIDE (20cm)



ISA

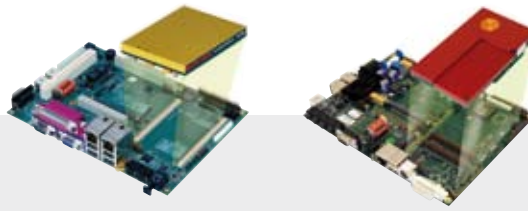
PCI

Pentium® M
LX800

0.5-1.8GHZ

max.
1GB RAM

2x LAN



Technical data

Type	MSEBX800	MSEBX855-B
CPU	SM800PCX	SM855-xxx
ISA-BUS (option 807015/807016)	16bit, PC/104 option	8bit, PC/104 option
PCI-BUS (option 807005/807006)	(5slot) PC/104-Plus option	(4slot) PC/104-Plus option
PCI Express-BUS (PCI/104-Express)	-	-
2nd Level cache (kB)	128	0-2048
Performance (MHz)	500	1000-1800
DRAM Min-Max (MB)	1024	256-1024
CompactFlash socket (option 807007)	-	Option
Keyboard, mouse (PS/2)	yes	yes
Boot drive	FD, HD, USB, LAN	FD, HD, USB, LAN, CF
Floppy interface	yes	yes
IDE interface P-ATA	1x	2 x
IDE interface S-ATA	-	-
COM1	RS232C	RS232C
COM2	RS232C	RS232C
COM3	-	RS232C/RS422/485
COM4	-	RS232C/RS422/485
LPT1	yes	yes
USB (2.0)	4x	6 x
LAN port 1 onboard transformer	10/100BASE-T	10/100BASE-T
LAN port 2 onboard transformer	10/100BASE-T	-
Audio	Stereo	AC97-5.1
Video controller	internal, LX800	i855GME
Video memory (MB)	16	16-64
LCD interface	LVDS, 24bit, 1600 x 1200	LVDS, 18bit, 1600 x 1200
DVI interface	-	yes
CRT interface	yes	yes
Video input	yes	-
Watchdog	yes	yes
Power normal (typ.)	10V-30V/10W	10V-30V/12-25W
Power suspend	0.1W	0.1W
Power management	yes	yes
RTC battery onboard	900mAh (10 years)	900mAh (10 years)
Cooling type	passive	passive/active
Operating temperature	-25°C to +70°C ¹⁾	-25°C to +70°C ¹⁾
Extended operating temperature (E47)	see SM800/SM900 PCX	see SM855-xxx
Size (W x L in mm)	203 x 146 x 29	203 x 146 x 29
Weight (with smart)	410 g	470 g
MTBF	>200'000h	>200'000h
Special features 1	POD	POD
Special features 2	-	24bit Digital I/O
Special features 3	-	-
Part no. (without RAM, without SM855)	811060	811200

CPUs

Article	Description	No.	No.
SM855-C140	Intel® Celeron® M C140 (1.0GHz), 0MB RAM	-	805192
SM855-C373	Intel® Celeron® M C373 (1.0GHz), 0MB RAM	-	805163
SM855-P738	Intel® Pentium® M P738 (1.4GHz), 0MB RAM	-	805164
SM855-P745	Intel® Pentium® M P745 (1.8GHz), 0MB RAM	-	805168
SM800PCX	AMD Geode LX800, 0MB RAM	805212	-

Manufacturer:

1) Depending on cooler and CPU performance.

 smart embedded computers

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