



EBX Format - 600-1800MHz - MSEBX855-B/-M/-S

Feature

- EBX Format
- 600-1800MHz (clock speed using Pentium/Celeron M)
- 128MB-1GB DDR RAM (SODIMM)
- COM1, COM2, (COM3 and COM4 with B-version)
- up to 6x USB version 2.0 (B&M versions)
- LAN 10/100
- AUDIO AC97
- RTC and Watchdog Timer
- 10-30V DC Input
- functional only with SM855-xxx installed
- Mini PCI Slot
- 24 Bit Digital I/O
- VGA & DVI
- 1000 BASE-T (S-Version only)
- SATA (S-Version only)



Ordering Information

Item Codes	Part#	Description
MSEBX855-B	811200	EBX Base Board, 6 USB, CF, LVDS&S-video out
MSEBX855-M	811201	EBX Base Board, 6 USB, 5.1 sound, S-video in/out
MSEBX855-S	811202	EBX Base Board, 1 GB LAN port & 2 S-ATA ports
Options		Choose one SmartModule (SM855-xxx)
SM855-C100	805167	Pentium-M 600MHz, Zero L2 cache
SM855-C300	805166	Celeron-M 600MHz, 512k 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
I-Short	807015	PC/104 BUS (ISA) connector added (female only)
I-Long	807016	PC/104 BUS (ISA) connector added (pass through)
L+	807006	PC/104+ pass through connector added to board
P+	807005	PC/104+ NON pass through connector added
MSEBX-PCI-CONV	811205	Riserboard with 1PCI slot connector
MSBC-CK	802012	Cable for SBC (MSEBX, MAS, PCCP series)
ASSEMBLY-KIT	710460	4 PC/104 Std. Stand-off posts, Hex nuts, screws
MSEBX855-DK	811210	Chassis w/CD/floppy/HD, power supply
Power Cable	693020	Power Cable for EBX, 20cm
"y" Kbd. mouse	693028	PS/2 Mouse and Keyboard Y-cable
Please call for Memory options		
*More options may be available, please contact our Sales office *		

Description

The MSEBX855 has three versions of the base board and in conjunction with the SM855-XXX becomes a highly integrated, very fast performing computer. For example, a unit with a SM855-P738 (1.4GHz) installed is about equivalent to a 2.8GHz Pentium 4 performance level. The MSEBX855 offers interfaces of USB 2.0, 10/100BASE-T LAN, AC97 Audio, DVI, and more (see table for options on version desired). The memory used is DDR-SODIMM and can go from 128MB to 1024MB. The integrated video controller can control two independent displays.

The three standard configurations of the MSEBX consist of a B for Basic, M for Multimedia and S for Server. All versions can be powered by using 10V-30VDC and boot from many different media sources. The board can come with a Compact Flash card holder (version B or as an option), multiple COM ports (version B), MPEG2 hardware encoding (version M), 1GB LAN and Serial ATA interfaces with RAID 1 capability (version S), etc. Please see the table for standard configurations or call your sales representative.

Data subject to change without notice



Feature Technical Specifications

FEATURES

Item code	MSEBX855-B	MSEBX855-M	MSEBX855-S
CPU / Chipset	smartModule855	smartModule855	smartModule855
2nd Level Cache	1024kB	1024kB	1024kB
Performance (MHz)	600 - 1800MHz	600 - 1800MHz	600 - 1800MHz
DRAM Min-Max (MB)	DDR-SODRIMM, 128-1024	DDR-SODRIMM, 128-1024	DDR-SODRIMM, 128-1024
Onboard Flash (MB)	—	—	—
DiskOnChip Socket	—	—	—
CompactFlash Socket	1x type I	optional	optional
Mini PCI	yes	yes	yes
PC-Card Interface	—	—	—
Mouse, Keyboard	yes	yes	yes
BootDrive	FD, HD, CD, USB, LAN	FD, HD, CD, USB, CF, LAN	FD, HD, CD, USB, S-ATA, LAN
Floppy Interface	yes	yes	yes
IDE Interface	2x P-ATA133	2x P-ATA133	2x P-ATA133
S-ATA Interface	—	—	2x S-ATA150
Onboard IDE-Flash	—	—	—
COM1	RS232C	RS232C	RS232C
COM2	RS232C	RS232C	RS232C
COM3	RS232 / 422 / 485	possible	possible
COM4	RS232 / 422 / 485	possible	possible
LPT1	yes	yes	yes
IrDA	external	external	external
USB	6x (V2.0)	6x (V2.0)	2x (V2.0)
LAN1	10/100 BASE-T	10/100 BASE-T	10/100 BASE-T
LAN2	—	—	1000 BASE-T
SCSI/Firewire	—	—	—
Audio	AC97, 5.1	AC97, 5.1	AC97, Stereo out
Video Controller	i855GME	i855GME	i855GME
Video Datapath	AGP internal	AGP internal	AGP internal
Video Memory	64 MB	64 MB	64 MB
LCD Interface	DVI / LVDS 18 Bit, 3V	DVI / LVDS 18 Bit, 3V	DVI
LCD Resolution	1600 x 1280 x 16M	1600 x 1280 x 16M	1600 x 1280 x 16M
TV Out	—	yes (PAL)	—
MPEG2	—	yes	—
Video Input	—	2x CVBS, 1x Svideo	—
EEPROM Support	yes	yes	yes
Watchdog	yes	yes	yes
Power Normal	5V/4A (typ.@1400MHz/256MB)	5V/4A (typ.@1400MHz/256MB)	5V/4A (typ.@1400MHz/256MB)
Power Suspend	5V/0.5A (typ.), ATX	5V/0.5A (typ.), ATX	5V/0.5A (typ.), ATX
Size (mm)	204 x 140	204 x 140	204 x 140
Expansion BUS	PC/104-Plus, optional PC/104	PC/104-Plus, optional PC/104	PC/104-Plus, optional PC/104
Cooling Type	passive / active	passive / active	passive / active
Operating Temp.	-25°C to +50°C	-25°C to +50°C	-25°C to +50°C
Extended Temp.	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Weight (gr)	~350	~350	~350
MTBF	> 200'000 h	> 200'000 h	> 200'000 h

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Advanced Digital Logic, Inc.; 4411 Morena Blvd., Suite 101; San Diego, CA 92117-4345
 Ph. 858 490-0597 F. 858 490-0599; e-mail: sales@adl-usa.com; web: www.adl-usa.com