



MSM800XEL/XEV, MSM900XEV

Description

The MICROSPACE® MSM800XEL/XEV has all of the standard PC interfaces plus ethernet LAN and a sound controller (XEV). The 256MB memory is permanently soldered, adding increased robustness. In the XEV version a PCI to ISA bridge is onboard which supports the ISA bus. The PC/104-Plus bus (ISA & PCI) and 4 USB interfaces are available as functional extensions. The 8W power consumption permits passive cooling within a very broad ambient temperature range. The XEL version is a low-cost variant without battery, sound codec or ISA bus.

Applications

- _ Used in cars and airplanes
- _ Information terminals
- _ Play systems with music output
- _ Measuring instruments
- _ Telecommunication devices

Ordering information (Option/accessories)

Article	No.	Description
Option L+	807006	PC/104plus Con. long not with Opt.CF (807007)
Option P+	807005	PC/104plus Con. short
Option CF2	807007	CF Socket Type II not with Opt.-L+ (807006)
MSM800-CKCON	803035	Cablekit with connector- print for USB, LAN, Sound, Cables:FD, COM, LPT, PWR, PS2
MSFLOPPY	891001	Floppydrive, 26pin, black
MSFDCK	802600	Microfloppy cable 150mm
MSM800-LANCON	803046	LAN cable with RJ45 print
MSM800-DVICON	803042	Converter to DVI-D 24Bit, not for 802105
MSM800-LVDSCON	803044	Converter to LVDS
MSM800... smallcooler	807041	for -25°C to +70°C Air
MSM800... large cooler	807042	for -40°C to +85°C Air (not with 802100/802105)
MSM800... Th.Junction	807043	Thermal conduct. cooling (not with 802100/802105) needs screening opt.E48

*Photos on page 44.



ISA

PCI

LX800
LX900500MHz
600MHzmax.
1GB RAM

1x LAN



Technical data

Type	MSM800XEL	MSM800XEV	MSM900XEV
CPU	AMD Geode™ LX800	AMD Geode™ LX800	AMD Geode™ LX900
ISA-BUS	PC/104-8/16-bit	PC/104-8/16-bit	PC/104-8/16-bit
PCI-BUS (option 807006 or 807005)	Option (2slot)	Option (2slot)	Option (2slot)
PCI Express-BUS	-	-	-
2 nd Level cache (kB)	128	128	128
Performance (MHz)	500	500	600
DRAM Min-Max (MB)	soldered 256MB	soldered 256MB	soldered 256MB
CompactFlash socket (option 807007)	Option type II	Option type II	Option type II
Keyboard, mouse (PS/2)	yes	yes	yes
Boot drive	FD, HD, LAN, CF, USB	FD, HD, LAN, CF, USB	FD, HD, LAN, CF, USB
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	1x	1x	1x
USB (2.0)	4x	4x	4x
LAN port 1 incl. transformer	10/100BASE-T	10/100BASE-T	10/100BASE-T
LAN port 2	-	-	-
Audio	-	AC97	AC97
Video controller	LX800	LX800	LX900
Video memory (MB)	16 (UMA)	16 (UMA)	16 (UMA)
LCD interface	24bit, 240x 320 to 1600x 1200	24bit, 240x 320 to 1600x 1200	24bit, 240x 320 to 1600x 1200
DVI interface	-	Option 803042	Option 803042
CRT interface	yes	yes	yes
Video input	-	-	-
Watchdog	yes	yes	yes
Power normal (typ.)	5V/8W	5V/8W	5V/9W
Power suspend (typ.)	3W	3W	3W
Power management	yes	yes	yes
RTC battery onboard	external	400mAh (typ. 5 years)	400mAh (typ. 5 years)
Cooling type	order separately	order separately	order separately
Operating temperature without cooler	0°C to +60°C	0°C to +60°C	0°C to +60°C
Operating temperature with 807041	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C
Extended operating temperature with 807042 + E47	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Extended operating temperature with 807043 + E48	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Size (W x L in mm)	90 x 96/99	90 x 96/99	90 x 96/99
Weight	105 g	120 g	120 g
MTBF	>300'000h	>200'000	>200'000
Special features 1	soldered RAM	soldered RAM	soldered RAM
Special features 2	-	LVDS-option 803044	LVDS-option 803044
Special features 3	-	-	-
Part no. (without cooler, incl. RAM)	802125	802120	802170 (not from stock)

Manufacturer:

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