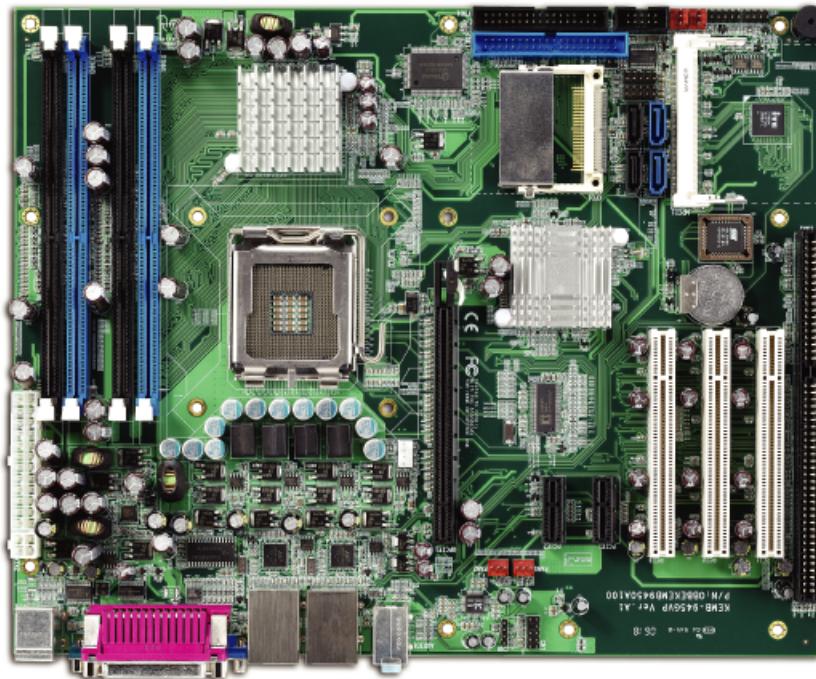


EMA-945G

Industrial Motherboard in ATX form factor
with Intel® 945G chipset

ECS

Embedded
Computer
Source



- Supports Intel® Pentium® D dual-core CPU on LGA775 socket
- 1066/800/533MHz Front Side Bus
- Intel® Graphics Media Accelerator 950
- Dual Channel DDR2 DIMM, maximum 4GB
- Integrated PCI Express LAN, USB 2.0 and SATA-300

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Industrial Motherboard in ATX form factor with Intel® 945G chipset

⇒ Technical Information

Specifications
ATX form factor single-processor industrial motherboard
Processors
Single Processor with Intel® Land Grid Array 775 (LGA775) package Intel® Pentium® D with dual-core, Pentium® 4 with Hyper-Threading Technology, or Celeron® D Processor 1066/800/533MHz Front Side Bus
Chipsets
Intel® 945G Graphic Memory Controller Hub (GMCH) Intel® I/O Controller Hub 7 (ICH7)
BIOS
Support for 4 Mb Firmware Hub BIOS write protection provides anti-virus capability DMI BIOS Support Supports system soft power-off (via ATX power supply) Supports PXE Remote Boot Supports boot from USB Device
System Memory
Dual Channel DDR2 DIMM 667/533/400MHz, up to 4 DIMMs Maximum 4GB System Memory
Graphics
GMCH analog RGB output on the faceplate. Resolution up to 2048 x 1536 at 75Hz. PCI Express x16 extension slot
PCI/PCIe/ISA Support
32-bit/33MHz PCI Bus, 16-bit/8 MHz ISA bus 1x PCIe x16 slot, 2x PCIe x1 slots, 3x PCI slots, 1x ISA slot (shared w/ PCI)
Clock Generator
Integrated Circuit Systems ICS954101 (CK410)

I/O Controller
LPC Super IO controller W83627EHF
On-board LAN
Onboard Marvell 88E8053 supports 2 GbE ports on bracket Support IEEE 802.3x compliant flow control Support IEEE 802.3ab Auto-Negotiation of speed, duplex and flow control
Peripheral Support
One IDE channel supports two Ultra ATA 100/66/33 devices 4 Channels SATA-300 CompactFlash Type II socket Mini PCI socket Compliant with USB Specification Rev. 2.0, supports 8 USB 2.0 ports (Four onboard Type-A connectors, four external) Two 16550 UART compatible serial ports with ESD protection, one UART supports RS232/422/485 interface (jumperless, by BIOS selection) One internal bi-direction parallel port with SPP/ECP/EPP mode One internal Floppy port PS/2 Keyboard and Mouse ports AC'97 Codec, Speaker-out, Line-in, MIC
Watchdog Timer
1-255 step (sec/min), can be set with software on Super I/O
Hardware Monitor
Temperature, fans, and voltage monitoring Fan speed control and monitoring
Operating Temp.
0°C - 60°C
Certifications
CE, FCC Class A

⇒ Product Information

Article	Part No.	Description
EMA-945G	BMMB945P-001000T	Industrial Motherboard in ATX form factor with Intel® 945G chipset
CPU Cooler	0H05CPU92926500L	Standard CPU cooler for LGA775 socket (92x92x65.6mm)
CPU Cooler (slim)	0H05CPU93932900L	Slim CPU cooler for LGA775 socket (93x93x29.5mm)
Cooler Retention Plate	0H05HSEBWN77500L	Retention Plate for CPU cooler



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