

Industrial Single Board Computer

Full-size PICMG CPU Card

FS-97E

Support Intel Penryn CPU, DDRIII up to 4GB, VGA, LVDS, DVI, HDTV, Gigabit LAN, IDE, CF, SATA, COM, Mini PCI, PCI Express mini card, USB2.0 and HD Audio



Form Factor	Full-size PICMG (1.0 compliant) CPU Card
CPU	Support Intel Penryn Processor Package type: Micro-FCPGA478 (Socket-P) Front side bus: 667/800/1066 MHz
Memory	2 x DDRIII SO-DIMM 800/1066 MHz up to 4GB
Chipset	Intel GM45 & ICH9M
Real Time Clock	Chipset integrated RTC with onboard lithium battery
Watchdog Timer	Generates a system reset with internal timer for 1min/s ~ 255min/s
Power Management	ACPI 2.0 compliant, supports power saving mode
Serial ATA Interface	3 x SATAII interface with 300MB/s transfer rate, 2 x SATAI interface with 150MB/s transfer rate (support RAID 0,1)
IDE Interface	1 x 40 pin UltraATA133 IDE channel up to 2 ATAPI interface
Solid State Disk	1 x Compact Flash Type II interface
VGA Interface	Intel integrated extreme GMA 4500MHD(Graphic Media Accelerator) Technology
Video memory	Up to 1024MB share with system memory
LVDS Interface	Onboard 18/24-bit dual channel LVDS connector with +3.3V/+5V/+12V supply
DVI Interface	Chrontel CH7318C DVI transmitter with onboard 26-pin DVI interface (FS-97EXDG & FS-97EXDG2)
Audio Interface	Intel integrated ICH9-M with Realtek ALC888 HD Audio
LAN Interface	2 x Intel 82574L Gigabit LAN
GPIO Interface	Onboard programmable 8-bit Digital I/O interface
Extended Interface	2 x PCI Express mini card, 1 x CF socket, 1 x Mini PCI socket to support Mini PCI Type IIIA
Internal I/O Port	1 x RS232/422/485, 1 x RS232, 1 x SMBUS, 1 x GPIO, 1 x HDTV, 8 x USB, 1 x IrDA, 1 x LVDS, 1 x LCD inverter, 1 x AT keyboard, 5 x Serial ATA, 1 x IDE, 1 x LPT, 1 x FDD, 1 x Front panel Audio, 1 x CDIN and 1 x DVI (FS-97EXDG & FS-97EXDG2)
External I/O Port	COM + LAN / 2 x LAN, DB15 VGA, PS/2 Keyboard&Mouse
Power Requirement	+5V, +12 DC input & 5V _{SB} Requirement
Dimension	338mm x 122mm
Temperature	Operating within 0~60 centigrade Storage within -20~85 centigrade

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Ordering Code

FS-97EXG	Onboard VGA, LVDS, HDTV, IDE, CF, SATA, COM, USB2.0, Mini PCI, HD Audio, 2 x PCI Express mini card, 1 x Gigabit LAN.
FS-97EXG2	Onboard VGA, LVDS, HDTV, IDE, CF, SATA, COM, USB2.0, Mini PCI, HD Audio, 2 x PCI Express mini card, 2 x Gigabit LAN.
FS-97EXDG	Onboard VGA, LVDS, HDTV, IDE, CF, SATA, COM, USB2.0, Mini PCI, HD Audio, DVI, 1 x PCI Express mini card, 1 x Gigabit LAN.
FS-97EXDG2	Onboard VGA, LVDS, HDTV, IDE, CF, SATA, COM, USB2.0, Mini PCI, HD Audio, DVI, 1 x PCI Express mini card, 2 x Gigabit LAN.
MPX-574D/D2	PCI Express mini card supports dual Gigabit LAN.
MPX-SDVOD	SDVO to DVI module. (FS-97EXG & FS-97EXG2)
MPX-827	PCI Express mini card supports SD card.
MPX-954	PCI Express mini card supports 4 x RS232 ports.