

Industrial Single Board Computer

PICMG 1.3 Full-size CPU card FS-A78

Support 4th Generation Intel® Core™ i7, Core™ i5, Core™ i3, Celeron and Pentium CPU with Onboard VGA, DVI, LVDS, Display port, HD Audio, Serial ATAIII, USB3.0 & 2.0, Gigabit LAN, PCIE X16, PCI, mSATA



Form Factor	PICMG 1.3 Full-size CPU Card
CPU	Supports 4 th Generation Intel® Core™ i7/ i5/ i3/Celeron/Pentium Desktop Processor. Package type: FCLGA1150
Memory	Two DDR3/DDR3L (support 1.5V) 1333/1600 DIMM up to 16GB
Chipset	Intel® Q87 PCH
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	Supports ACPI 4.0 compliant
Serial ATA Interface	Intel® Q87 PCH built-in 4 x Serial ATAIII interface up to 600MB/s Support RAID 0, 1, 5, 10 and Intel Rapid Storage Technology.(not support SATA II device)
VGA Interface	Intel® Clear Video integrated HD Graphics Technology
DVI Interface	Onboard DVI connector
LVDS Interface	Onboard 24-bit dual channel LVDS connector with +3.3V/+5V/+12V supply
Display port Interface	Onboard Display port connector
Audio Interface	Intel® integrated Q87 with Realtek ALC888 HD Audio.
LAN Interface	1 x Intel® I210-AT Gigabit LAN 1 x Intel® I217-LM Gigabit LAN
GPIO interface	Onboard programmable 8-bit Digital I/O interface.
Extended Interface	Support 1 PCI-Express x16 and 1 PCI-Express x4 or 4 PCI-Express x1, 4 PCI, MSATA (mSATA only Support SATAIII)
Internal I/O Port	1 x CRT, 1 x DVI, 1 x LVDS, 1 x LCD inverter, 1 x GPIO, 1 x Audio, 1 x IrDA , 1 x SMBus, 1 x LPC , 1 x LVDS, 1 x LPT(Parallel port), 4 x USB2.0, 6 x USB3.0, 4 x SATAIII, 1 x RS232/422/485, 5 x RS232(FS-A78G201 & FS-A78G204) 4 x RS232(FS-A78G01 & FS-A78G04)
External I/O Port	1 x PS/2 Keyboard/Mouse Port, 1 x DisplayPort, 2 x RJ45 LAN, (FS-A78G201 & FS-A78G204) 1 x RJ45 LAN, (FS-A78G01 & FS-A78G04), 1 x RS232(FS-A78G01 & FS-A78G04)
External Audio	Line-in, MIC-in, Front, Rear, Center/Subwoofer.
Power Requirement	Need Backplane from Standard 24-pin ATX power supply (20-pin is compatible) and P4 4-pin 12V(Onboard)
Dimension	338mm x 126mm (L x W)
Temperature	Operating within 0~60 centigrade Storage within -20~85 centigrade

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Ordering Code

FS-A78G01	Onboard DVI, CRT, LVDS, Display port, USB3.0 & 2.0, 6 x Serial Port, SATAIII, IrDA, GPIO, LPC, LPT, Realtek HD Audio, SMBUS, mSATA, 1 x Gigabit LAN (I217LM) . Support 1 PCI-Express x16 and 4 PCI-Express x1
FS-A78G04	Onboard DVI, CRT, LVDS, Display port, USB3.0 & 2.0, 6 x Serial Port, SATAIII, IrDA, GPIO, LPC, LPT, Realtek HD Audio, SMBUS, mSATA, 1 x Gigabit LAN (I217LM) . Support 1 PCI-Express x16 and 1 PCI-Express x4
FS-A78G201	Onboard DVI, CRT, LVDS, Display port, USB3.0 & 2.0, 6 x Serial Port, SATAIII, IrDA, GPIO, LPC, LPT, Realtek HD Audio, SMBUS, mSATA, 2 x Gigabit LAN . Support 1 PCI-Express x16 and 4 PCI-Express x1
FS-A78G204	Onboard DVI, CRT, LVDS, Display port, USB3.0 & 2.0, 6 x Serial Port, SATAIII, IrDA, GPIO, LPC, LPT, Realtek HD Audio, SMBUS, mSATA, 2 x Gigabit LAN . Support 1 PCI-Express x16 and 1 PCI-Express x4

For further product information please visit the website at <http://www.commell.com.tw>

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