

# Industrial Single Board Computer

## PICMG 1.3 Full-size CPU Card

### FS-A77

Support 3<sup>rd</sup> Generation Intel® Core™ i7/ i5/i3 CPU  
with DDRIII SO-DIMM, CRT, DVI, LVDS, USB2.0, USB3.0  
Gigabit LAN, PCI Express mini card, SATAII/III, Audio, COM, LPT



<b>Form Factor</b>	PICMG 1.3 Full-size CPU Card
<b>CPU</b>	3 <sup>rd</sup> Generation Intel® Core™ i7, Core™ i5, Core™ i3 Mobile Processor Package type: rPGA988B
<b>Memory</b>	2 x DDRIII SO-DIMM 1066/1333/1600 MHz up to 16GB Support Non-ECC, unbuffered memory only
<b>Chipset</b>	Intel QM77 Express chipset
<b>Real Time Clock</b>	Chipset integrated RTC with onboard lithium battery
<b>Watchdog Timer</b>	Generates a system reset with internal timer for 1min/s ~ 255min/s
<b>Power Management</b>	Supports ACPI 3.0 compliant.
<b>Serial ATA Interface</b>	4 x serial ATAII interface with 300MB/s transfer rate 2 x serial ATAIII interface with 600MB/s transfer rate Support RAID 0, 1, 5, 10 and Intel Rapid Storage Technology
<b>VGA Interface</b>	Onboard DSUB15 connector for VGA interface
<b>LVDS Interface</b>	Onboard 24-bit dual channel LVDS connector with +3.3V/+5V/+12V supply
<b>DVI interface</b>	Onboard DVI with 20-pin connector
<b>Audio Interface</b>	Realtek ALC888 HD Audio
<b>LAN Interface</b>	1 x Intel 82579LM Gigabit LAN (Support iAMT8.0) 1 x Intel 82574L Gigabit LAN
<b>GPIO Interface</b>	Onboard programmable 8-bit Digital I/O interface
<b>Expansion Interface</b>	PICMG 1.3 Interface Support 1 PCI-Express x16 and 1 PCI-Express x4 or 4 PCI-Express x1 4 PCI bus master, and 4 USB2.0 Interface and 1 x PCIE mini card socket
<b>Internal I/O Port</b>	5x RS232, 1 x RS232/422/485, 1 x SMBUS, 1 x GPIO, 4 x USB2.0, 4 x USB3.0, 1 x IrDA, 1 x LVDS, 1 x LPT, 6 x Serial ATA, 1 x LCD inverter, 1 x Front panel Audio and 1 x CDIN
<b>External I/O Port</b>	DB15 VGA port, RJ45 LAN port, PS/2 Keyboard/Mouse Port
<b>Power Requirement</b>	+5V, +12 DC input & 5V <sub>SB</sub> Requirement
<b>Dimension</b>	338 mm x 126 mm (L x W)
<b>Temperature</b>	Operating within 0~60 centigrade Storage within -20~85 centigrade

#### Taiwan Commate Computer Inc.

19F, NO. 94, Sec. 1, Shin Tai Wu Rd., Hsi Chih, Taipei Shien, Taiwan.

TEL: +886-2-26963909

Website: [www.commell.com.tw](http://www.commell.com.tw)

FAX: +886-2-26963911

E-mail: [info@commell.com.tw](mailto:info@commell.com.tw)



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## Ordering Code

<b>FS-A77TXDG</b>	Intel PGA988B + QM77 Onboard VGA, LVDS, DVI, USB2.0, USB3.0, COM, HD Audio, SATAII ,SATAIII, SMBUS, LPC, IrDA, GPIO and PCI Express mini card, <b>1 x Giga LAN</b> Support <b>Four X1 &amp; One X16</b> PCI Express interface
<b>FS-A77FTXDG</b>	Intel PGA988B + QM77 Onboard VGA, LVDS, DVI, USB2.0, USB3.0, COM, HD Audio, SATAII ,SATAIII, SMBUS, LPC, IrDA, GPIO and PCI Express mini card, <b>1 x Giga LAN</b> Support <b>One X4 &amp; One X16</b> PCI Express interface
<b>FS-A77TXDG2</b>	Intel PGA988B + QM77 Onboard VGA, LVDS, DVI, USB2.0, USB3.0, COM, HD Audio, SATAII ,SATAIII, SMBUS, LPC, IrDA, GPIO and PCI Express mini card, <b>2 x Giga LAN</b> Support <b>Four X1 &amp; One X16</b> PCI Express interface
<b>FS-A77FTXDG2</b>	Intel PGA988B + QM77 Onboard VGA, LVDS, DVI, USB2.0, USB3.0, COM, HD Audio, SATAII ,SATAIII, SMBUS, LPC, IrDA, GPIO and PCI Express mini card, <b>2 x Giga LAN</b> Support <b>One X4 &amp; One X16</b> PCI Express interface

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