

Specifications

PROCESSOR

- Socket G rPGA 988A for:
 - Intel® Core™ i7-620M (SV)
 - Intel® Core™ i5-520M (SV)
 - Intel® Celeron® P4500 (SV)
- Supports IMVP6.5 up to 35W CPU

CHIPSET

- Intel® HM55 Express Chipset

SYSTEM MEMORY

- Two 204-pin SODIMM sockets
- Supports DDR3 800/1066MHz
- Supports dual channel memory interface
- Supports up to 8GB system memory
- DRAM device technologies: 1Gb and 2Gb DDR3 DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC

ONBOARD GRAPHICS FEATURES

- Intel® HD Graphics
- Supports LVDS and VGA interfaces
- LVDS: Single Channel - 18/24-bit; Dual Channel: 36/48-bit
- Intel® Clear Video technology
- Intel® Dynamic Video Memory Technology (Intel® DVMT)
- Intel® Smart 2D Display Technology (Intel® S2DDT)

ONBOARD AUDIO FEATURES

- Supports High Definition Audio interface

ONBOARD LAN FEATURES

- Intel® 82577LM Gigabit Ethernet PHY
- Integrated 10/100/1000 transceiver
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

SERIAL ATA (SATA) INTERFACE

- Supports 4 Serial ATA interfaces compliant with SATA 1.0a specification
- SATA speed up to 3Gb/s (SATA 2.0)
- Integrated Advanced Host Controller Interface (AHCI) controller

IDE INTERFACE

- Supports up to two IDE devices
- DMA mode: Ultra ATA up to 100MB/s
- PIO mode: up to 16MB/s

EXPANSION INTERFACES

- Supports 8 USB ports (USB 1.1/2.0 host controllers)
- Supports up to 4 PCI slots (PCI 2.3 interface)
- Supports PCIE x16 / SDVO / HDMI / Display Port switchable interface
- Supports 4 PCIE x1 interfaces
- Supports LPC interface
- Supports SMBus interface
- Supports IDE interface
- Supports 8-bit Digital I/O

DAMAGE FREE INTELLIGENCE

- Monitors CPU temperature and overheat alarm
- Monitors CPU fan speed and failure alarm
- Monitors Vcore/V_{GFX}/1.5V voltages and failure alarm
- Watchdog timer function

BIOS

- 32Mbit SPI BIOS

POWER CONSUMPTION

- 49.71 W with i7-620M at 2.66GHz and 2x 1GB DDR3 SODIMM

TEMPERATURE

- 0°C to 60°C

HUMIDITY

- 10% to 90%

POWER

- Input: 12V, 5VSB (optional), VCC_RTC

PCB

- Dimensions
 - Basic COM Express® form factor
 - 95mm (3.74") x 125mm (4.9")
- Compliance
 - PICMG COM Express® R1.0, Type 2

CERTIFICATION

- CE
- FCC Class B
- UL
- RoHS

Ordering Information

Model Name	Part Number	Description
CP900-B	770-CP9002-000K	Intel® Core™/ Celeron® processors

Packing List

- 1 CP900-B board
- 1 QR (Quick Reference)
- 1 CD

Optional Items

- COM630-B carrier board kit
- Cable kit for carrier board
- Heat sink with fan: A71-111000-010G

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