



## Specifications

### PROCESSOR

- Intel® Core™ i7-610E (SV) : CP908-B610E
- Intel® Core™ i7-620LE (LV) : CP908-B620L
- Intel® Core™ i7-620UE (ULV) : CP908-B620U
- Intel® Core™ i7-660UE (ULV) : CP908-B660U
- Intel® Core™ i5-520E (SV) : CP908-B520E
- Intel® Core™ i3-330E (SV) : CP908-B330E
- Intel® Celeron® P4505 (SV) : CP908-B4505
- Intel® Celeron® U3405 (ULV) : CP908-B3405
- Processor package: BGA1288

### CHIPSET

- Intel® HM55 PCH (Platform Controller Hub)

### SYSTEM MEMORY

- One 204-pin SODIMM socket
- Supports DDR3 800/1066MHz
- Supports up to 4GB 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 tranceiver
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

### SERIAL ATA INTERFACE

- Supports 4 Serial ATA ports 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<sub>GRX</sub>/1.5V voltages and failure alarm
- Watchdog timer function

### BIOS

- AMI BIOS
- 32Mbit SPI BIOS

### POWER CONSUMPTION

- 40.90 W with i5-520E at 2.40GHz and 1x 4GHz DDR3 SODIMM

### TEMPERATURE

- 0°C to 60°C

### HUMIDITY

- 10% to 90%

### POWER

- Input: 12V, 5VSB (optional), VCC\_RTC

### REGULATORY

- EMC: CE, FCC Part 15 Class B

### PCB

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

### CERTIFICATION

- CE
- FCC Class B
- UL
- RoHS

## Packing List

- 1 CP908-B board
- 1 Heat sink kit
- 1 CD
- 1 QR (Quick Reference)

## Optional Items

- COM630-B carrier board kit
- Cable kit for carrier board