**Features**

- **CHIPSET**: Intel® HM55
- **CPU**: Intel® Core™ i7/i5/i3
- **CPU**: Intel® Celeron®
- **MEMORY**: 1 DDR3 SODIMM up to 4GB
- **EXPANSION**: 4 PCIe x1, 4 PCI
  - 1 LPC, 1 SMBus, 1 IDE
  - 1 VGA, 1 LVDS
  - Multiplex digital display with PCIe x16 (SDVO/HDMI/Display Port)
- **LAN**: 1 Gigabit LAN interface
- **DIMENSIONS**: 95mm x 95mm (3.74” x 3.74”)

**Mechanical Drawing**

- Top View
- Bottom View
- Diagram of module PCB and carrier board with dimensions:
  - 4.00 mm
  - 24.70 mm
  - 39.70 mm
  - 70.20 mm

**Block Diagram**

- Diagram showing the processor, DIMM, graphics, core, memory, and other components with connections and specifications.
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

CHISET
- 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 transceiver
- 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/VGPU/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
- Dimensions
  - COM Express® Compact
  - 95mm (3.74") x 95mm (3.74")
- Compliance
  - PC/IMC COM Express® R1.0 Compact form factor, Type 2
- 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

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