# CP900-B
## Basic COM Express Module

### 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

Active HS/Fan included with board

### CHIPSET
- Intel® HM55 PCH (Platform Controller Hub)

### 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
- Supports wire management

### 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 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

### TEMPERATURE
- 0°C to 60°C

### HUMIDITY
- 10% to 90%

### POWER
- Input: 12V, 5VSB, VCC_RTC

### REGULATORY
- UL, cUL, EMC: CE, FCC Part 15 Class B

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