### Features

- **MEMORY**: 2 DDR3L SODIMM up to 16GB
- **EXPANSION**:
  - 1 PCIe x16, 6 PCIe x1, 4 PCI
  - 1 LPC, 1 SMBus, 1 I²C, 1 IDE
  - 1 VGA, 1 LVDS
  - 8 USB 2.0
  - 3 SATA: 2 SATA 3.0, 1 SATA 2.0
  - SSD (optional)
- **LAN**: 1 LAN
- **DIMENSIONS**: COM Express® R2.1 Basic, Type 2 95mm x 125mm (3.74” x 4.9”)

### Mechanical Drawing

![Mechanical Drawing](image)

### Block Diagram

![Block Diagram](image)
Specifications

**PROCESSOR**
- 4th generation Intel® Core™ processors
- BGA 1364 packaging technology
- 22nm process technology
Please refer to the Ordering Information below

**CHIPSET**
- Intel® HM86 Express Chipset

**SYSTEM MEMORY**
- Two 204-pin DDR3L SODIMM sockets
- Supports DDR3L 1333/1600MHz SODIMM
- Supports up to 16GB system memory
- DRAM device technologies: 1Gb, 2Gb and 4Gb DDR3L DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC

**ONBOARD GRAPHICS FEATURES**
- Intel® HD Graphics 4600
- Supports 1 VGA and 1 LVDS
- VGA: resolution up to 2048x1536 @ 60Hz
- LVDS: NXP PTN3460, 24-bit, dual channel, resolution up to 1920x1200 @ 60Hz
- Intel® Clear Video Technology
- Intel® Advanced Vector Extensions (Intel® AVX) Instructions
- Supports DirectX 11.1, OpenGL 3.2, OpenCL 1.2

**ONBOARD AUDIO FEATURES**
- Supports High Definition Audio interface

**ONBOARD LAN FEATURES**
- Intel® I217LM 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 2 SATA 3.0, 1 SATA 2.0, and 1 IDE
- Supports 2 SATA 3.0, 1 IDE, and 1 SSD (optional)
- Integrated Advanced Host Controller Interface (AHCI) controller

**SSD - optional**
- 2GB/4GB/8GB/16GB/32GB/64GB
- Write: 30MB/sec (max), Read: 70MB/sec (max)
- SATA to SSD onboard

**TRUSTED PLATFORM MODULE (TPM) - optional**
- Provides a Trusted PC for secure transactions
- Provides software license protection, enforcement and password protection

Ordering Information

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Chipset</th>
<th>Temperature</th>
<th>Memory</th>
<th>SSD</th>
<th>Processors</th>
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<tbody>
<tr>
<td>HM920</td>
<td>- HM86</td>
<td>B: 0°C to 60°C</td>
<td>S: Socket</td>
<td>0: None</td>
<td>4700EQ: Intel® Core™ i7-4700EQ, 6M Cache, up to 3.4 GHz, 47W</td>
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<td>2: 2GB</td>
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<td>4400E: Intel® Core™ i5-4400E, 3M Cache, up to 3.3 GHz, 37W</td>
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<td>4: 4GB</td>
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<td>4402E: Intel® Core™ i5-4402E, 3M Cache, up to 2.7 GHz, 25W</td>
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<td>8: 8GB</td>
<td>4</td>
<td>4100E: Intel® Core™ i3-4100E, 3M Cache, 2.4 GHz, 37W</td>
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<td>1: 16GB</td>
<td>6</td>
<td>4102E: Intel® Core™ i3-4102E, 3M Cache, 1.6 GHz, 25W</td>
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<td>3: 32GB</td>
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<td>2000E: Intel® Celeron® 2000E, 2M Cache, 2.2 GHz, 37W</td>
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<td>6: 64GB</td>
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<td>2002E: Intel® Celeron® 2002E, 2M Cache, 1.5 GHz, 25W</td>
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Packing List

- 1 HM920 board
- 1 QR (Quick Reference)
- 1 DVD

Optional Items

- COM330-B carrier board kit
- Heat spreader with heat sink and fan: 761-HSWMBL-000G

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