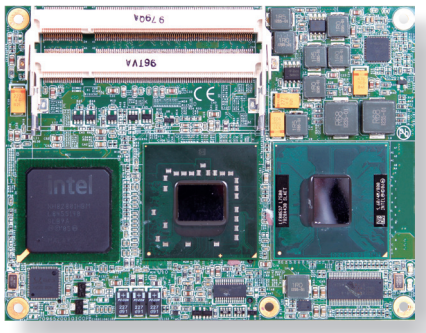
# COM-842E

## Wide-Range Temperature Intel® Core™ 2 Duo L7500 COM Express® Basic Type 2 CPU Module



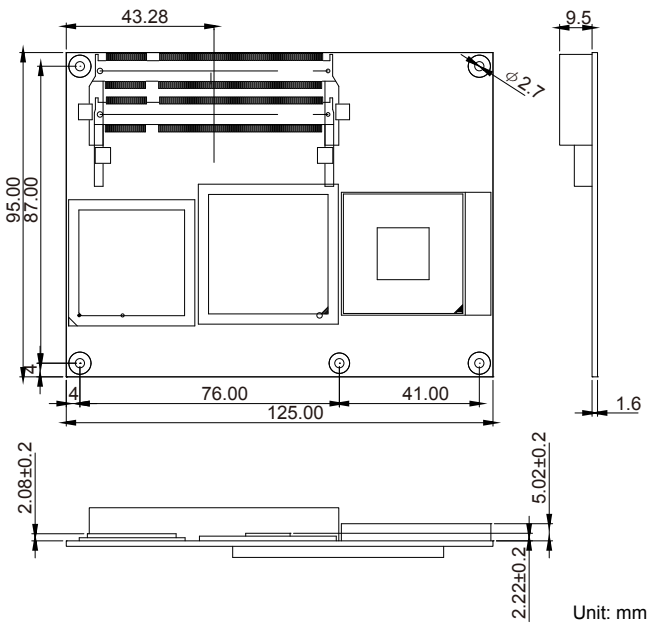
### Features

- Soldered onboard Intel® Core™ 2 Duo Processor L7500
- Memory Capacity up to 4GB supported
- Integrated Gigabit Ethernet
- Dual Channels 24-bit LVDS and Analog RGB
- **Wide-Range Operating Temp.: -40 ~ 85°C**

| **System** | |
|---|---|
| Processor | Soldered onboard Intel® Core™ 2 Duo Processor L7500 1.6GHz |
| Chipset | Intel® GME965 + ICH8M |
| Memory | 2 x DDR2 SO-DIMM sockets, supporting up to 4GB 667MHz SDRAM |
| BIOS | AMI BIOS |
| Watchdog Timer | 1~255 levels reset |
| **I/O** | |
| USB 2.0 | 8 x USB 2.0 ports |
| Expansion | 5 x PCIex1, LPC, 4 x PCI |
| Storage | 1 x Ultra ATA, supporting 2 IDE devices<br>3 x Serial ATA ports with 300MB/s HDD transfer rate |
| Ethernet Chipset | 1 x Realtek RTL8111 PCIe GbE controller |
| Digital I/O | 8-bit Programmable |
| Audio | HD link |
| **Display** | |
| Graphic Chipset | Integrated Intel® GMA X3100 |
| Graphic Interface | Analog RGB/DVI: Analog RGB, with resolution up to 2048x1536<br>LCD: Dual channels 24-bit LVDS<br>TV-out: NTSC/PAL up to HDTV 1080P |
| **OS Support** | |
| Windows 2000<br>Windows 7 32-bit/64-bit | |

| **Mechanical & Environmental** | |
|---|---|
| Power input | DC 12V, 5VSB |
| Power Consumption | 2.99A@12V with T7500 (Typical, with PBE-1700-W) |
| Operating Temp. | -40 ~ 85ºC (-40 ~ 185ºF) |
| Operating Humidity | 10 ~ 95% @ 85ºC (non-condensing) |
| Dimension (L x W) | 125 x 95 mm (4.9" x 3.7") |

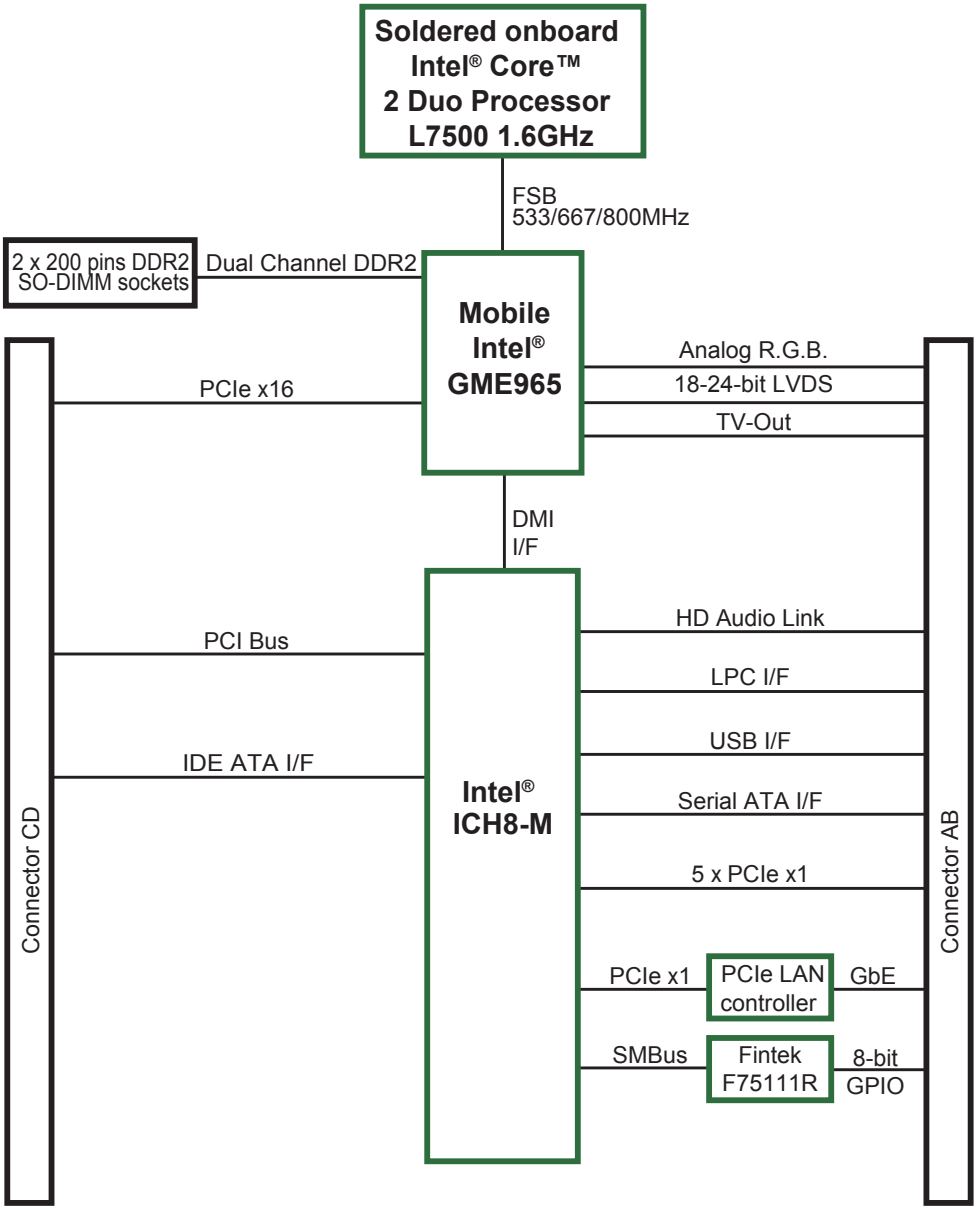
**Dimensions**




Unit: mm

Computer on Module

**Block Diagram**




| **Ordering Information** | |
|---|---|
| COM-842E-L7500 (BTO) | Intel® Core™ 2 Duo Processor L7500/ GME965/ ICH8M WT COM Express® Basic Type 2 CPU module |
| **Optional Accessories** | |
| HS-0842-F1 | Heat spreader 114x95x20.8mm |
| PBE-1700-W R1.3 | COM Express® Type 2 evaluation board with Super IO W83627 in ATX form factor |
| CBK-04-1700-00 | Cable kit<br>1 x SATA cable<br>1 x Serial port cable<br>1 x FDD cable<br>1 x IDE cable |