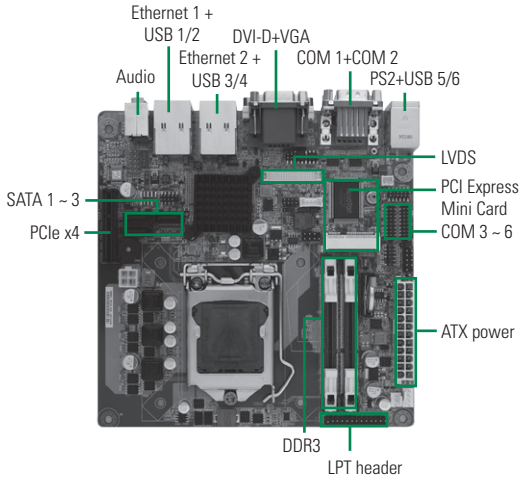
# MANO861

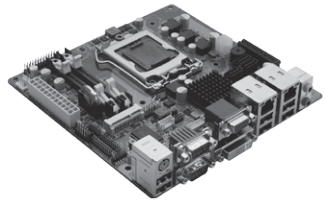
Mini-ITX SBC with LGA1155 Socket 3rd Gen Intel® Core™ Processor, Intel® H61, VGA/DVI-D/LVDS, Dual LANs and HD Audio

## Features

- LGA1155 socket 3rd gen Intel® Core™ i7/i5/i3 & Celeron® processor
- Intel® H61
- 2 DDR3-1066/1333 SO-DIMM, up to 16GB
- 1 PCIe x4 supported
- 3 SATA-300
- 6 USB 2.0 ports
- 6 COM ports
- VGA/DVI-D/LVDS with dual-view supported




DualView DDR3 PCIe Mini



▲ Side view

### Core System

| | |
|---|---|
| CPU | LGA1155 socket 3rd generation Intel® Core™ i7/i5/i3 and Celeron® processors |
| System Memory | 2 x 204-pin DDR3-1333/1600 SO-DIMM, up to 16GB |
| Chipset | Intel® H61 |
| BIOS | AMI UEFI BIOS |
| SSD | N/A |
| Watchdog Timer | 255 levels, 1 ~ 255 sec. |
| Expansion Interface | 1 x PCIe x4<br>1 x PCI Express Mini Card (Shared USB & mSATA) |
| Battery | Lithium 3V/ 220 mAH |
| Power Requirements | +5V @ 1.7A, +12V @ 5.9A, +5Vsb @ 0.1A, +3.3V @ 1.0A |
| Size | 170 x 170 mm |
| Board Thickness | 1.6 mm |
| Temperature | 0°C ~ +60°C (32°F~ 140°F), operation |
| Operation Humidity | 10% ~ 95% relative humidity, non-condensing |

### I/O

| | |
|---|---|
| MIO | 1 x RS-232/422/485 (COM 1)<br>5 x RS-232 (COM 2-6) |
| SATA | 3 x SATA-300 |
| Hardware Monitoring | Detect CPU/System temperature, voltage and fan speed |
| Ethernet | 1st port as 10/100/1000 Mbps supports WOL, PXE with Realtek 8111E (LAN1)<br>2nd port as 10/100/1000 Mbps supports WOL, PXE with Realtek 8111E (LAN2) |
| Audio | HD audio as MIC-in/Line-out with Realtek ALC892 |
| USB | 6 x USB 2.0 |
| TPM | N/A |
| SMBus | N/A |
| Digital IO | 8 Channels (4-IN & 4-OUT) |

### Display

| | |
|---|---|
| Chipset | Intel® Integrated graphics |
| Memory Size | Shared memory |
| Display Interface | 1 x VGA<br>1 x DVI-D<br>1 x LVDS |

### Packing List

User's manual/utility CD, cable

### Ordering Information

| | |
|---|---|
| **Standard** | |
| MANO861VGGA (P/N: E38M861100) | Mini-ITX SBC with LGA1155 socket 3rd generation Intel® Core™ i7/i5/i3 & Celeron®, VGA/DVI-D/LVDS, 2 GbE LANs, 6 COM and audio |
| **Optional** | |
| 5938M861010E | COM Port Cable, 10 x 2P, P=2.0 mm, L=300 mm |




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