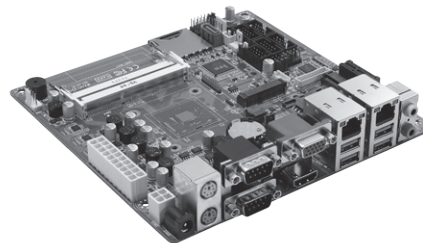
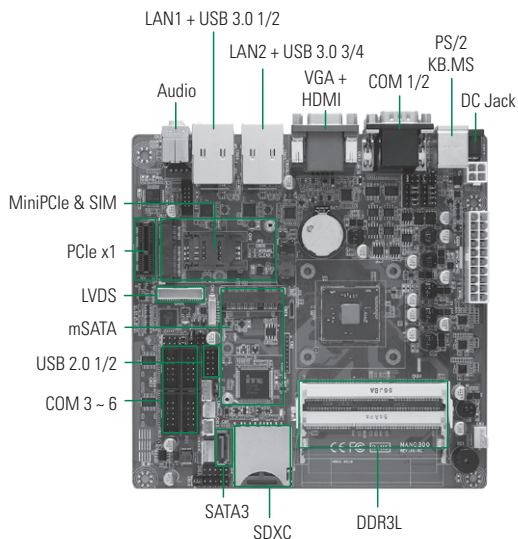


# MANO300

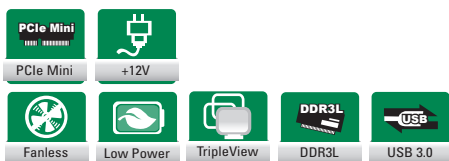
Mini-ITX SBC with Intel® Celeron® Processor N3160 (up to 2.24 GHz) SoC, VGA/HDMI/LVDS, USB 3.0, Mini PCIe Card, mSATA and HD Audio

## Features

- Intel® Celeron® processor N3160 2.24 GHz (Braswell)
- 2 DDR3L-1600 SO-DIMM, up to 8GB
- PCI Express Mini Card slot and PCIe x1
- 4 USB 3.0 and 2 USB 2.0 ports
- 1 SATA-600, 1 mSATA and 1 SDXC
- 6 COM ports
- 12 VDC and STD ATX
- VGA, HDMI and LVDS with triple-view supported



▲ Side view



## Core System

|                     |   |
|---------------------|---|
| CPU                 | Intel® Celeron® processor N3160 (up to 2.24 GHz) quad core (Braswell) |
| System Memory       | 2 x 204-pin SO-DIMM dual channel DDR3L-1600, up to 8GB                |
| Chipset             | SoC integrated  |
| BIOS                | AMI   |
| SSD                 | SDXC Slot   |
| Watchdog Timer      | 255 levels, 1 ~ 255 sec.  |
| Expansion Interface | 1 x PCIe x1<br>1 x PCI Express Mini Card<br>1 x SIM card slot         |
| Battery             | Lithium 3V/220 mAh  |
| Power Requirements  | 12VDC or STD ATX  |
| Size/Weight         | 170 x 170 mm  |
| Temperature         | 0°C ~ +60°C (+32°F ~ +140°F), operation                               |
| Operation Humidity  | 10% ~ 95% relative humidity, non-condensing                           |

## I/O

|             |   |
|-------------|---|
| MIO         | 1 x PS/2 keyboard and mouse<br>2 x RS-232/422/485 (Rear I/O)<br>4 x RS-232 (COM 3 with +5/+12V) |
| SATA        | 1 x SATA-600<br>1 x mSATA   |
| Ethernet    | 2 x Realtek RTL8111F for Gigabit LAN support WoL & PXE  |
| Audio       | HD Audio as Mic-in/Line-out with Realtek ALC662   |
| USB         | 2 x USB 2.0 (internal)<br>4 x USB 3.0 (rear I/O)  |
| TPM         | N/A   |
| Digital I/O | 8 channels programmable   |
| SM BUS      | N/A   |

## Display

|                   |   |
|-------------------|---|
| Chipset           | Intel® HD graphics                                      |
| Memory Size       | Shared memory   |
| Display Interface | 1 x VGA<br>1 x HDMI<br>1 x LVDS; 18/24-bit dual channel |

## Packing List

|                 |  |
|-----------------|--|
| <b>Standard</b> |  |
| I/O Bracket     |  |

## Ordering Information

|                                 |   |
|---------------------------------|---|
| <b>Standard</b>                 |   |
| MANO300VHGGGA (P/N: E38M300101) | Mini-ITX SBC with Intel® Celeron® N3160, VGA/HDMI/LVDS, 2 GbE LANs, 6 COM, USB 3.0, mSATA, PCI Express Mini Card and HD audio |

|                 |                                     |
|-----------------|-------------------------------------|
| <b>Optional</b> |                                     |
| 59411500600E    | SATA power cable 4P 180 mm (RC)     |
| 59386831000E    | USB x 2, 2 x 5P 2.54 mm, L=180 mm   |
| 59380703000E    | COM port x 2 with bracket P=2.54 mm |
| 50956124040E    | AC Adapter 60W/12V5A/Φ 2.5          |