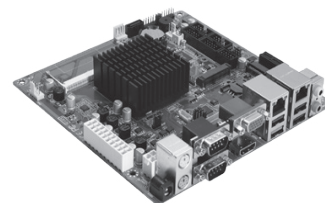
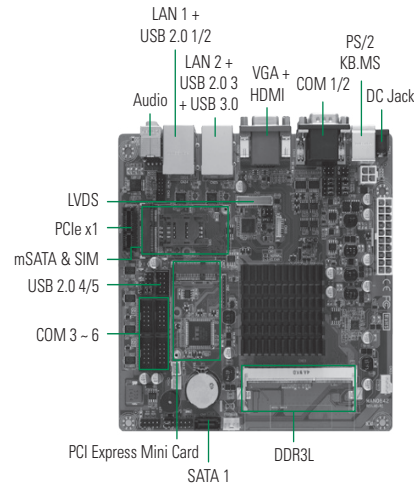


# MANO842

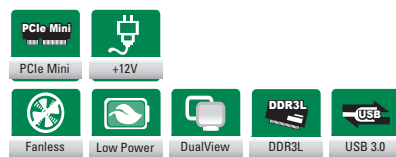
Mini-ITX with Intel® Celeron® Processor J1900 (up to 2.42 GHz), VGA/HDMI/LVDS, USB 3.0, Mini PCIe Card and HD Audio

## Features

- Intel® Celeron® processor J1900 2.0 GHz
- 1 DDR3L-1333 SO-DIMM, up to 8GB
- PCIe x1 supported
- 1 USB 3.0 and 5 USB 2.0 ports
- 1 SATA-300 and 1 mSATA slots
- 6 COM ports
- 12 VDC and ATX
- VGA/HDMI/LVDS with dual-view supported



▲ Side view



## Core System

|                     |                                                                            |
|---------------------|----------------------------------------------------------------------------|
| CPU                 | Intel® Celeron® processor J1900 (up to 2.42 GHz) quad core SoC (Bay Trail) |
| System Memory       | 1 x 204-pin DDR3L-1333 SO-DIMM dual channel, up to 8GB                     |
| Chipset             | SoC integrated                                                             |
| BIOS                | AMI                                                                        |
| SSD                 | N/A                                                                        |
| 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                                                               |
| 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 PS/2 Keyboard & mouse<br>2 x RS-232/422/485 (rear I/O)<br>4 x RS-232 |
| SATA        | 1 x SATA-300<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         | 5 x USB 2.0<br>1 x USB 3.0; (rear I/O: 1 x USB 3.0 + 3 x USB 2.0)        |
| 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, Driver CD |  |

## Ordering Information

|                               |                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Standard</b>               |                                                                                                                 |
| MANO842VHGA (P/N: E38M842101) | Mini-ITX SBC with Intel® Celeron® J1900, VGA/HDMI/LVDS, 2 GbE LANs, USB 3.0, 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/Φ2.5                                                                                       |



## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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