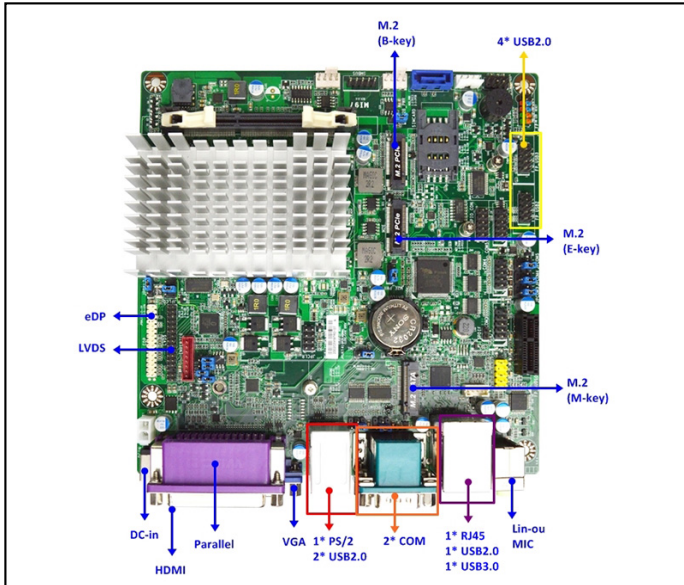


## Mini-ITX Motherboard with Intel® Celeron® Processor N2930



## Features

- Powered by Intel® Celeron® Processor N2930 (Bay Trail, TDP 7.5W)
- Versatile Display Options: 1 x HDMI, 1 x VGA, and 1 x LVDS/eDP output
- Storage Interfaces: 1 x SATA II and 1 x M.2 M-Key (SATA)
- Expansion Options: 1 x PCIe x1, 1 x M.2 E-Key, 1 x M.2 B-Key, and 1 x SIM card slot
- Comprehensive I/O Ports: 1 x USB 3.0, 7 x USB 2.0, 5 COM ports, and 1 x GPIO
- Optional TPM Module for Enhanced Security

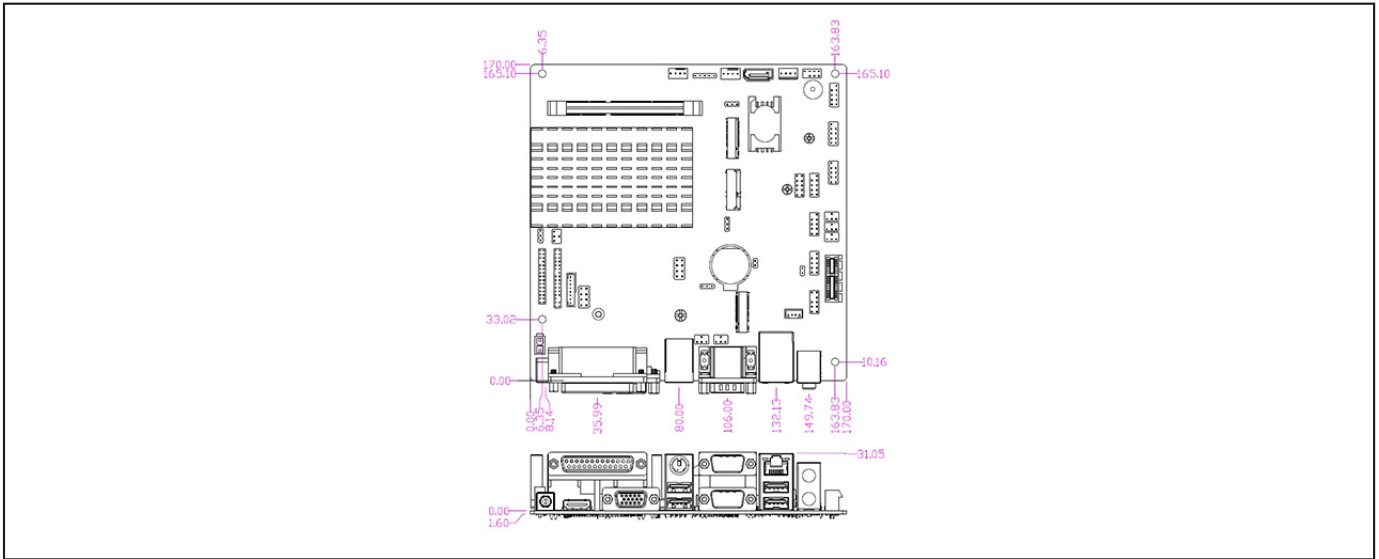
## Packing List

| PART NUMBER       | DESCRIPTION             | QTY |
|-------------------|-------------------------|-----|
| MI97R Series      | MI97R M/B               | 1   |
| F04-MB-020-1F     | I/O Shield              | 1   |
| G01-PW4PS-2S-323F | SATA Power Y-type Cable | 1   |
| G01-SATA-BK-B-2F  | SATA Cable              | 1   |

## Specifications

| SYSTEM                      |  |
|-----------------------------|--|
| MB FORM FACTOR              | Mini-ITX   |
| CPU                         | Onboard Intel® Celeron® Processor N2930 (Formerly Bay Trail, TDP 7.5W)   |
| CHIPSET                     | Intel® SoC   |
| MEMORY                      | 1 x DDR3L 1333MHz, Single Channel SO-DIMM, up to 8GB   |
| BIOS                        | AMI Flash ROM  |
| WATCHDOG TIMER              | 255 Levels   |
| SECURITY                    | TPM2.0   |
| DIMENSION (W X D)           | 170.0 (W) x 170.0 (D) mm (6.7" x 6.7")   |
| OS SUPPORT                  | Windows® 10 (64bit)<br>Windows® 10 (32bit)<br>Windows® 7 (64bit)<br>Windows® 7 (32bit)<br>Linux                  |
| POWER                       |  |
| POWER REQUIREMENT           | DC-in 12V  |
| POWER ON MODE               | AT / ATX   |
| CONNECTOR                   | 2-pin Power Con  |
| DISPLAY                     |  |
| GPU                         | Intel® HD Graphics   |
| LVDS                        | 1 x LVDS (Max. Resolution: 1920 x 1200 @60Hz)  |
| eDP                         | 1 x eDP (Max Resolution: 2560 x 1600@60Hz, co-lay with LVDS)   |
| HDMI                        | 1 x HDMI (Max Resolution: 1920 x 1200@60Hz)  |
| VGA                         | 1 x VGA (Max Resolution: 1920 x 1080 @60Hz)  |
| AUDIO                       |  |
| CODEC                       | Realtek Audio Codec  |
| Line-out                    | 1 x Audio Jack for Line-Out  |
| MIC-in                      | 1 x Audio Jack for MIC-In  |
| AMPLIFIER                   | 3W   |
| LAN                         |  |
| ETHERNET                    | 1 x RJ45 for Realtek® RTL8119I GbE   |
| USB PORT                    |  |
| USB                         | 1 x USB 3.0<br>3 x USB 2.0<br>Internal Header for 4 x USB 2.0  |
| SERIAL PORT                 |  |
| COM                         | 1 x DB-9 for RS-232<br>1 x DB-9 for RS-232/422/485<br>Internal Header for 3 x RS-232                             |
| INTERNAL I/O                |  |
| GPIO                        | 8-Bit  |
| SMBUS                       | Yes  |
| FAN                         | 1 x CPU Fan Header   |
| ADDITIONAL                  | 1 x Audio Header<br>1 x Parallel<br>1 x PS/2   |
| STORAGE                     |  |
| SATA                        | 1 x SATA II<br>1 x SATA Power Connector  |
| EXPANSION                   |  |
| M.2                         | 1 x M-key 2280 (SATA)<br>1 x E-Key 2230 (USB 2.0/PCIe x1)<br>1 x B-key 3042 (USB2.0 interface) W/SIM card holder |
| PCIe                        | 1 x PCIe x1  |
| SIM                         | 1 x SIM Card Slot  |
| ENVIRONMENT & CERTIFICATION |  |
| SHOCK                       | 15G, 11ms duration   |
| VIBRATION                   | 1 Grms/ 5- 500Hz/ Operation  |
| OPERATING TEMPERATURE       | 0°C ~ 60°C (32°F ~ 140°F)  |
| STORAGE TEMPERATURE         | -20°C ~ 85°C (-4°F ~ 185°F)  |
| OPERATING HUMIDITY          | 10 ~ 90% Relative Humidity, Non-condensing   |
| CERTIFICATION               | CE/FCC Class A<br>LVD  |
| ESG DECLARATION             | EU RoHS<br>China RoHS<br>REACH   |

## Dimension Unit: mm



## Ordering Information

| PART NUMBER           | MI97R30                   | MI97R32                   |
|-----------------------|---------------------------|---------------------------|
| CPU                   | Intel® Celeron® N2930     | Intel® Celeron® N2930     |
| SECURITY              |                           | TPM2.0                    |
| POWER REQUIREMENT     | DC-in 12V                 | DC-in 12V                 |
| GPU                   | Intel® UHD Graphics       | Intel® UHD Graphics       |
| LVDS                  | 1 x LVDS/eDP              | 1 x LVDS/eDP              |
| HDMI                  | 1 x HDMI                  | 1 x HDMI                  |
| VGA                   | 1 x VGA                   | 1 x VGA                   |
| ETHERNET              | 1 x GbE                   | 1 x GbE                   |
| USB                   | 1 x USB 3.0               | 1 x USB 3.0               |
| USB                   | 7 x USB 2.0               | 7 x USB 2.0               |
| COM                   | 1 x RS-232/422/485        | 1 x RS-232/422/485        |
| COM                   | 4 x RS-232                | 4 x RS-232                |
| SATA                  | 1 x SATA II               | 1 x SATA II               |
| M.2                   | 1 x M-Key 2242/2280       | 1 x M-Key 2242/2280       |
| M.2                   | 1 x E-key 2230            | 1 x E-key 2230            |
| M.2                   | 1 x B-Key 3042            | 1 x B-Key 3042            |
| PCI-E                 | 1 x PCI-E x1              | 1 x PCI-E x1              |
| SIM                   | 1 x SIM Card Slot         | 1 x SIM Card Slot         |
| OPERATING TEMPERATURE | 0°C - 60°C (32°F - 140°F) | 0°C - 60°C (32°F - 140°F) |