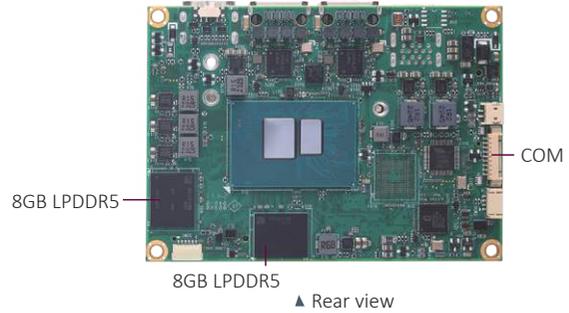
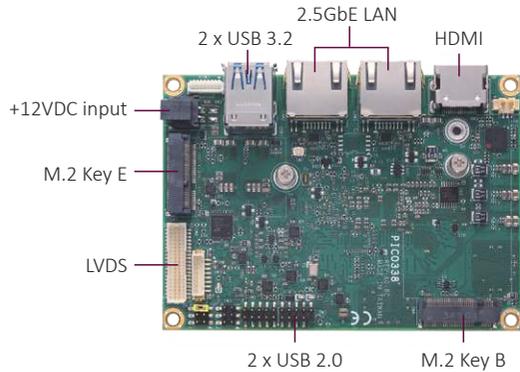


PIC0338 NEW

Pico-ITX SBC with Intel® Processor N97/Core™ i3-N305 Processor, HDMI, LVDS, and Two 2.5GbE LAN



▲ Side view

▲ APC238



LPDDR5



+12V



Dual-View



All Solid Caps



M.2

Features

- Intel® processor N97/Core™ i3-N305 processor
- 8GB or optional 16GB LPDDR5 on board
- Two 2.5GbE LAN ports
- M.2 Key B
- M.2 Key E

Specifications

Core System

| | |
|---------------------|--|
| CPU | Intel® processor N97/Core™ i3-N305 processor |
| System Memory | 8GB LPDDR5 onboard (16GB optional) |
| Chipset | SoC integrated |
| BIOS | AMI |
| SSD | 1 x M.2 Key B 2242 (PCIe x2/USB 2.0) 1 x PCIe NVMe SSD onboard, up to 512GB (optional) |
| Watchdog Timer | 255 levels, 0 to 255 sec. |
| Expansion Interface | 1 x M.2 Key E 2230 (PCIe x1/USB 2.0) 1 x M.2 Key B 3042/3052 (PCIe x1/USB 3.2), optional |
| Battery Lithium | Lithium 3V/220 mAh |
| Power Input | 2 x 2-pin connector +12V DC-in only AT auto power on function supported |
| Power Requirements | Intel® processor N97 @ 2.0 GHz, min. RMS: +12V @ 1.7A Intel® Core™ i3-N305 @ 1.0 GHz, min. RMS: +12V @ 2.0A |

Specifications

Display

| | |
|-------------------|---|
| Chipset | Intel® integrated Gfx graphic engine |
| Memory Size | Share system memory |
| Display Interface | 1 x HDMI 1 x LVDS; 18/24-bit single/dual channel |

I/O

| | |
|---------------------|--|
| SATA | N/A |
| Hardware Monitoring | Detect CPU/system temperature, voltage, and fan speed |
| Ethernet | 2 x 10/100/1000/2500 Mbps Ethernet with Intel® I226, supporting Wake-on-LAN and PXE Boot ROM |
| Audio | HD Audio link via pin header |
| USB | 2 x USB 2.0 2 x USB 3.2 |
| Serial | 1 x RS-232/422/485 |
| TPM | TPM 2.0 |
| SMBus | Yes |
| Digital I/O | 4-channel in/out programmable |

Mechanical and Environmental

| | |
|-----------------------|---|
| Dimensions | 100 x 72 mm |
| Board Thickness | 1.6 mm |
| Operating Temperature | -20°C to +65°C (-4°F to 149°F) (passive for N97, active for i3-N305) |
| Relative Humidity | 10% to 95% relative humidity, non-condensing |

Ordering Information

Standard

| | |
|--------------------------------------|---|
| PICO338-N97-8GB (P/N: E38H338103) | Pico-ITX SBC with Intel® processor N97 (2.0 to 3.6 GHz, 6MB cache, 12W), 8GB LPDDR5, HDMI, LVDS, and two 2.5GbE LAN (without heatsink) |
| PICO338-N305-8G (P/N: E38H338104) | Pico-ITX SBC with Intel® Core™ i3-N305 processor (1.0 to 3.8 GHz, 6MB cache, 9W), 8GB LPDDR5, HDMI, LVDS, and two 2.5GbE LAN (without cooler) |

Optional

| | |
|---------------------------------------|--|
| PICO338-N97-8GH (P/N: E38H338108) | Pico-ITX SBC with Intel® processor N97 (2.0 to 3.6 GHz, 6MB cache, 12W), 8GB LPDDR5, HDMI, LVDS, two 2.5GbE LAN, and heatsink |
| PICO338-N305-8GC (P/N: E38H338109) | Pico-ITX SBC with Intel® Core™ i3-N305 processor (1.0 to 3.8 GHz, 6MB cache, 9W), 8GB LPDDR5, HDMI, LVDS, two 2.5GbE LAN, and cooler |
| AX93A19 (P/N: E393A19100) | SIM card slot board |
| AX93A22 (P/N: E393A22100) | HD codec audio board for Mic-in/Line-in/Line-out |
| 590000086600 | DC power cable for adapter, L=180 mm |
| 50966124050E | Adapter 12V 60W, FSP060-DHAN3 with screw |
| 59380880250E | COM cable, DB9 to 9 x 1-pin, P=1.25 mm, L=250 mm |
| 594H51R2810E | USB cable, 2 x 5P-DuPont Pitch=2 mm to 2 x USB-4P, L=180 mm |

Packing List

Accessories

| | |
|--------------|-----------------------|
| 591000014500 | Power cable, L=100 mm |
|--------------|-----------------------|

APC238, Industrial Chassis

| | |
|------------|-----------------|
| SBC Option | PICO338-N97-8GB |
|------------|-----------------|

| | |
|-----|---|
| I/O | 2 x USB 3.2 2 x 2.5 GbE LAN 1 x HDMI 1 x 12V DC Jack 1 x power button |
|-----|---|

| | |
|------------------------|---|
| Dimensions (W x D x H) | 161 x 100 x 50.6 mm (6.34" x 3.94" x 1.99") |
|------------------------|---|

| | |
|-----------------------|---------------------------------|
| Operating Temperature | -20°C to +50°C (-4°F to +122°F) |
|-----------------------|---------------------------------|

| | |
|-------------------------------------|---|
| APC238-N97-8GB (P/N: E27P238100) | APC238 with Intel® processor N97, 8GB LPDDR5, 128GB Key B NvME, and 12V/60W adapter |
|-------------------------------------|---|