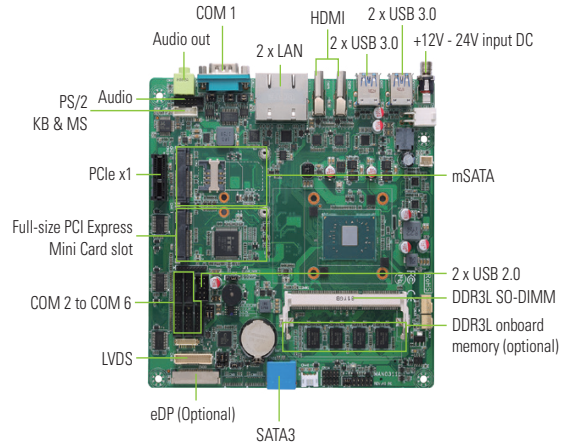


MANO311

Thin Mini-ITX SBC with Intel® Celeron® Processor N3350, Dual HDMI, LVDS, USB 3.0, PCI Express Mini Card, mSATA and HD Audio

Features

- Intel® Celeron® processor N3350
- 1 DDR3L SO-DIMM for up to 8GB of memory
- 4GB DDR3L onboard memory (optional)
- 1 PCI Express Mini Card slot and PCIe x1
- 4 USB 3.0 and 2 USB 2.0
- 1 SATA-600, 1 mSATA and 1 SDXC
- 6 COM supported
- Low profile

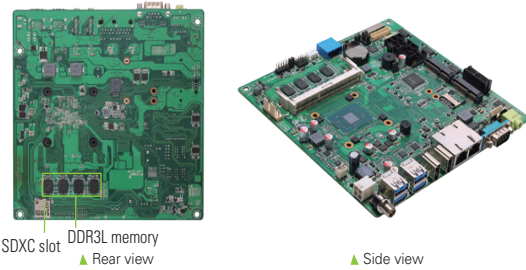


Core System

| | |
|-----------------------|--|
| CPU | Intel® Celeron® processor N3350 |
| System Memory | 1 x 204-pin DDR3L-1867 SO-DIMM, up to 8GB 4GB onboard memory (optional) |
| Chipset | SoC integrated |
| BIOS | AMI |
| SSD | 1 x mSATA 1 x SDXC slot |
| Watchdog Timer | 255 levels, 1 to 255 sec. |
| Expansion Interface | 1 x PCIe x1 1 x PCI Express Mini Card slot 1 x SIM card slot |
| Battery | Lithium 3V/220 mAh |
| Power Input | 1 x DC Jack 12V/5A adapter 1 x 4-pin connector +12 to 24V DC-in |
| Dimensions | 170 x 170 mm |
| Board Thickness | 1.6 mm |
| Operating Temperature | 0°C to +60°C (+32°F to +140°F) |
| Humidity | 10% to 95% relative humidity, non-condensing |

I/O

| | |
|-----------------|---|
| SATA | 1 x SATA-600 |
| Ethernet | 2 x 10/100/1000 Mbps Ethernet with Realtek RTL8111F; support Wake-on-LAN, PXE Boot ROM |
| Audio | HD Codec audio as Mic-in/Line-out with Realtek ALC662 |
| USB | 2 x USB 2.0 (internal) 4 x USB 3.0 (rear I/O) |
| Seria | 1 x RS-232/422/485 (rear I/O) 5 x RS-232 (COM 2 with +5/+12V powered) |
| PS/2 Combo Port | 1 x PS/2 keyboard and mouse |
| TPM | N/A |
| SMBus | N/A |
| Digital I/O | 16-channel in/out programmable |



Display

| | |
|-------------------|--|
| Chipset | Intel® integrated Gfx graphic engine |
| Memory Size | Shared memory |
| Display Interface | 2 x HDMI 1 x LVDS; 18/24-bit dual channel 1 x eDP (optional) |

Packing List

| | |
|-----------------|-----------------------------------|
| Standard | User's manual/utility CD/heatsink |
|-----------------|-----------------------------------|

Ordering Information

| | |
|-------------------------------------|---|
| Standard | |
| MANO311HGGA-N3350 (P/N: E38M311100) | Mini-ITX SBC with Intel® Celeron® processor N3350 (1.1 to 2.4 GHz, 2MB cache, 6W), 2 HDMI, LVDS, 2 GbE LANs, 6 COM, USB 3.0, mSATA, PCI Express Mini Card slot and HD audio |

| | |
|-----------------|--|
| Optional | |
| 594P8800600E | SATA power cable, 4-pin to 15-pin, P=2.0 mm, L=200 mm |
| 59382620000E | COM port cable, P=2.0 mm, L=300 mm |
| 594M5002A00E | 6-pin wafer to PS/2 cable, P=2.0 mm, L=200 mm |
| 59384500100E | Audio cable with bracket, P=2.0 mm, L=420 mm |
| 59386831000E | 2-port USB cable with bracket, 5-pin header, P=2.54 mm, L=180 mm |
| 59381560000E | 6-pin PS/2 cable adapter |

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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