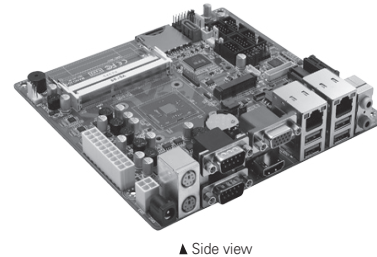
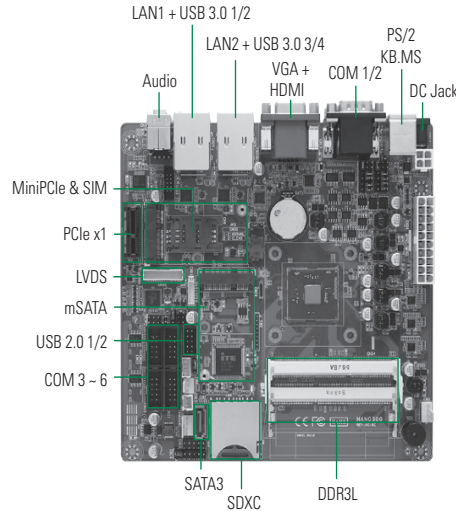


# MANO300

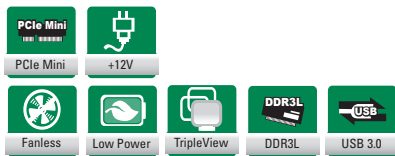
Mini-ITX SBC with Intel® Celeron® Processor N3160 (up to 2.24 GHz) SoC, VGA/HDMI/LVDS, USB 3.0, Mini PCIe Card, mSATA and HD Audio

## 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 1 x PCI Express Mini Card 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 2 x RS-232/422/485 (Rear I/O) 4 x RS-232 (COM 3 with +5/+12V)
SATA	1 x SATA-600 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) 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 1 x HDMI 1 x LVDS; 18/24-bit dual channel

## Packing List

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

## Ordering Information

<b>Standard</b>	
MANO300VHGGA (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

## 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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