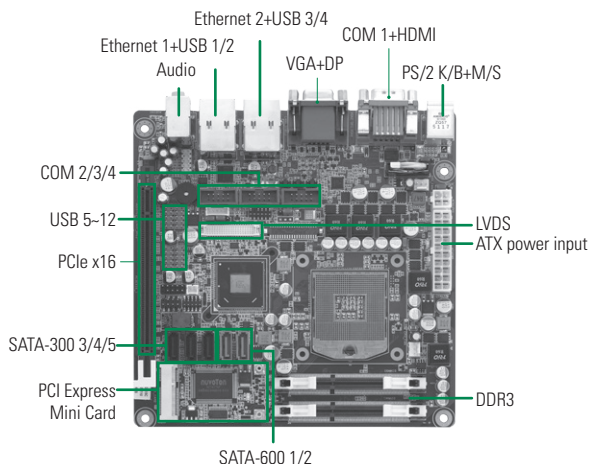


# MANO860

Mini-ITX SBC with Socket G2 Intel® Core™ Processor, Intel® QM67, DisplayPort/HDMI/VGA/LVDS, SATA-600, Dual LANs and RAID

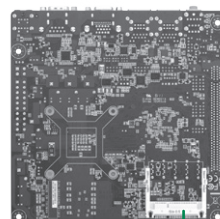
## Features

- Socket G2 (rPGA 988B) 2nd gen Intel® Quad/Dual Core™ i7/i5/i3 & Celeron® processor
- 2 DDR3-1066/1333 SO-DIMM. up to 16GB
- PCIe x16 Gen. 2 supported
- 2 x SATA-600, 3 x SATA-300 with RAID 0/1/5/10
- Intel® AMT supported
- TPM supported
- DisplayPort/HDMI/VGA/LVDS with dual-view supported



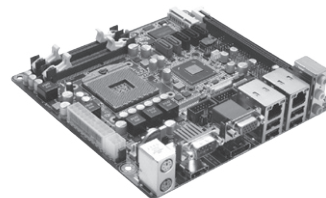
## Core System

CPU	Socket G2 (rPGA 988B) 2nd generation Intel® Core™ i7/i5/i3 and Celeron® processor
System Memory	2 x 204-pin DDR3-1066/1333 SO-DIMM, up to 16GB
Chipset	Intel® QM67
BIOS	AMI UEFI BIOS
SSD	1 x CFast™
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x PCIe x16 Gen. 2 1 x PCI Express Mini Card
Battery	Lithium 3 V / 220 mAh
Power Requirements	+12V @ 4.86A, +5V @ 1.28A, +3.3V @ 1.05A, +5VSB @ 0.36A, -12V @ 0.41A
Size	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



▲ Rear view

CFast



▲ Side view

## Display

Chipset	Intel® HD graphics 2000/3000
Memory Size	1.7GB
Display Interface	1 x DisplayPort 1 x HDMI 1 x LVDS 1 x VGA

## Packing List

User's manual/utility CD, SATA cable, I/O bracket

## Ordering Information

### Standard

MANO860PHGGA (P/N: E38M860100)	Mini-ITX SBC with socket G2 Intel® Core™ i7/i5/i3, VGA/DisplayPort/HDMI/LVDS, 2 GbE LANs, HD audio, 4 COM, 5 SATA and CFast™
-----------------------------------	--

### Optional

59460642100E	COM port cable, 5 x 2P, P=2.54 mm, L=300 mm
594F2112100E	COM port DB9 to 5 x 2P, P=2.54 mm, L=300 mm w/BK
594F2112110E	COM portx2 DB9 to 5 x 2P, P=2.54 mm, L=300 mm w/BK

## I/O

MIO	1 x PS/2 keyboard & mouse 4 x RS-232 (COM 2-4); with +5V/+12V powered
SATA	2 x SATA-600, 3 x SATA-300 with RAID 0/1/5/10
Hardware Monitoring	Detect CPU/system temperature, voltage and support Smart fan control
Ethernet	1st port as 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® 82579LM 2nd port as 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® 82583V
Audio	HD Codec audio as MIC-in/Line-in/Line-out speaker-out with Realtek ALC892
USB	12 x USB 2.0
TPM	Infineon SLB9625 for trusted platform
SMBus	System Management Bus for advanced monitoring/control
Digital I/O	8 channels (4-IN & 4-OUT)