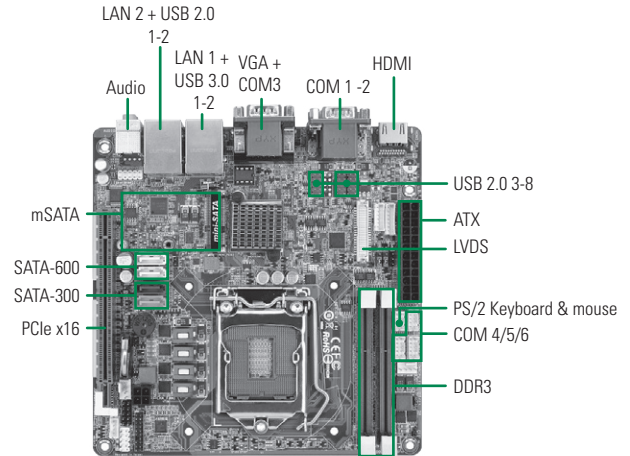


# MANO881

Mini-ITX SBC with LGA1150 Socket 4th Gen Intel® Core™ Processor, Intel® H81, HDMI/VGA/LVDS, Dual LANs and USB 3.0

## Features

- LGA1150 socket 4th gen Intel® Core™ i7/i5/i3 & Celeron® processors (Haswell/Haswell Refresh)
- 2 DDR3-1333/1600 SO-DIMM, up to 16GB
- PCIe x16 Gen2 supported
- 2 SATA-600, 2 SATA-300 and 1 mSATA
- 2 USB 3.0 and 8 USB 2.0 ports
- HDMI/VGA/LVDS with dual-view supported



## Core System

CPU	LGA1150 socket 4th generation Intel® Core™ i7/i5/i3 & Celeron® processor (Haswell/Haswell Refresh)
System Memory	2 x 204-pin DDR3-1333/1600 SO-DIMM dual channel, up to 16GB
Chipset	Intel® H81
BIOS	AMI
SSD	N/A
Watchdog Timer	255 level, 1 - 255 sec
Expansion Interface	1 x PCIe x16 Gen2 1 x mSATA
Battery	Lithium 3V/220 mAh
Power Requirements	i7-4770S 3.1 GHz 4GB x 1 DDR3-1333, +12V @ 5.2A, -12V @ 0.1A, +5V @ 2.2A, +5VSB @ 0.2A, +3.3V @ 0.9A
Size/Weight	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

## I/O

MIO	1 x PS/2 keyboard & mouse 3 x RS-232/422/485 (COM 1-3) 3 x RS-232 (COM 4-6) COM 1-6 with 5V/12V power select
SATA	2 x SATA-300 2 x SATA-600
Hardware Monitoring	Detect CPU/System temperature, voltage and fan speed
Ethernet	1st port as 10/100/1000 Mbps supports WOL, PXE with Intel® i210AT (LAN 1) 2nd port as 10/100/1000 Mbps supports WOL, PXE with Intel® i217V (LAN 2)
Audio	HD Audio as Mic-in/Line-out with Realtek ALC662
USB	2 x USB 3.0 8 x USB 2.0
TPM	N/A
Digital I/O	8 channels programmable
SM BUS	N/A

## Display

Chipset	Intel® HD 4000/5000 series graphics
Memory Size	Shared memory
Display Interface	1 x HDMI 1 x VGA 1 x LVDS

## Packing List

<b>Standard</b>	I/O Bracket, Driver CD
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## Ordering Information

<b>Standard</b>	MANO881VGGA (P/N: E38M881101)	Mini-ITX SBC with LGA1150 socket 4th generation Intel® Core™ i7/i5/i3 & Celeron®, USB 3.0, SATA 3.0, 2 GbE LANs, HDMI/VGA/LVDS and mSATA
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<b>Optional</b>	593826A0000E	SATA signal cable, L=500 mm
	593M8810300E	COM port cable, P=2.0, L=300 mm
	593M8810400E	USB cable with bracket, p=2.54 mm, L=200 mm
	593M8400400E	Audio cable with bracket, p=2.54 mm, L=300 mm

