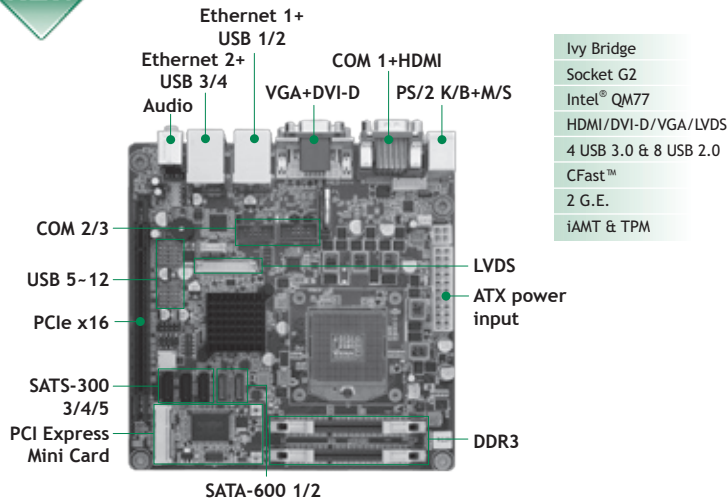


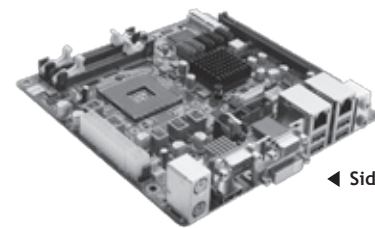
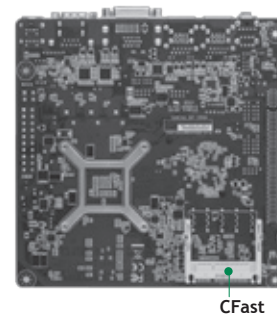
# MANO870

rPGA988 Socket G2 Intel® Core™ i7/ i5/ i3/ Celeron® Mini ITX SBC with Intel® QM77 PCH, HDMI/DVI-D/VGA/LVDS, PCI Express Gen3, SATA-600, Dual LAN and HD Audio



## Features

- rPGA988 socket G2 Intel® 3<sup>rd</sup> Generation Intel® Core™ i7/ i5/ i3/ Celeron® processors (Ivy Bridge)
- 2 DDR3-1066/1333 MHz up to 16 GB
- PCIe x16 Gen3 supported
- 4 USB 3.0 supported
- 2 SATA-600 supported
- CFast™ supported
- iAMT 8.0 supported
- TPM 1.2 supported
- Triple view display



## System

CPU	rPGA988 socket G2 3 <sup>rd</sup> Generation Intel® Core™ i7/ i5/ i3/ Celeron® processors (Ivy Bridge)
System Memory	2 x 204-pin SO-DIMM dual channel DDR3-1333/1600 max. up to 16 GB
Chipset	Intel® QM77
BIOS	AMI
SSD	1 x CFast™
Watchdog Timer	255 level, 1 – 255 sec
Expansion Interface	1 x PCIe x16 Gen3 1 x PCI Express mini card
Battery	Lithium 3V/220 mAH
Power Requirements	TBD
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

## I/O

MIO	1 x PS/2 keyboard/mouse 3 x RS-232 (COM1-3) with 5V/12V power
SATA	2 x SATA-600; 3 x SATA-300; with RAID 0,1,5,10
Hardware Monitoring	Detect CPU/System temperature, voltage and fan speed
Ethernet	1st port as 10/100/1000 Mbps supports WOL, PXE with Intel® 82579LM (LAN1) 2nd port as 10/100/1000 Mbps supports WOL, PXE with Intel® 82583V (LAN2)
Audio	HD Audio as Mic-in/Line-out with Realtek ALC892
USB	4 x USB 3.0 8 x USB 2.0
TPM	Infineon TPM1.2 SLB9635
Digital I/O	8 Channels (4-IN & 4-OUT)
SM BUS	N/A

## Display

Chipset	Intel® Integrated GFX
Memory Size	Shared memory
Display Interface	1 x HDMI 1 x DVI-D 1 x VGA 1 x LVDS

## Packing List

Standard
Quick installation guide, user's manual/utility CD, cable

## Ordering Information

Standard	
MANO870	rPGA988 socket G2 Mini ITX SBC with Intel® Core™ i7/ i5/ i3/ Celeron®, HDMI/DVI-D/ VGA/LVDS, PCI Express Gen3, SATA-600, 2 10/100/1000Mbps and audio