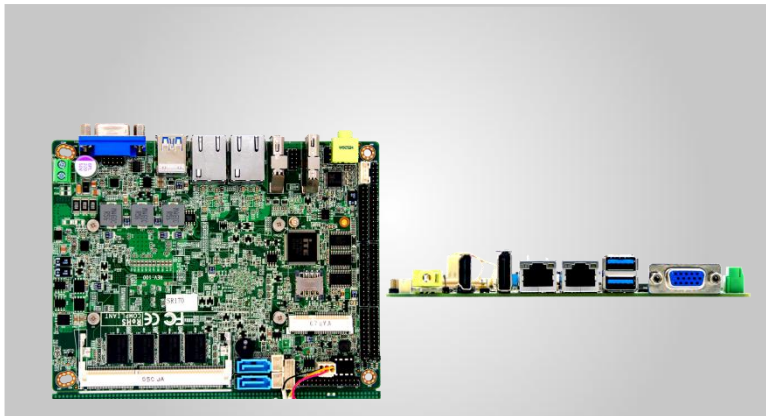


HM87Z3A



- ◆ Adopt Intel Intel Mobile 4th Haswell-M CPU;
- ◆ QM87/HM86/HM87 Chipset;
- ◆ Onboard 2GB/4GB DDR3L memory;
- ◆ Onboard 2*Intel Gigabit Ethernet, 2*USB 3.0;
- ◆ Support HDMI,CRT,DP (HDMI and DP support 4K display output)
- ◆ Dual channel 24bit LVDS Output;
- ◆ Support Touch screen (4wire 5wire 8wire)
- ◆ Support 8-36V wide voltage

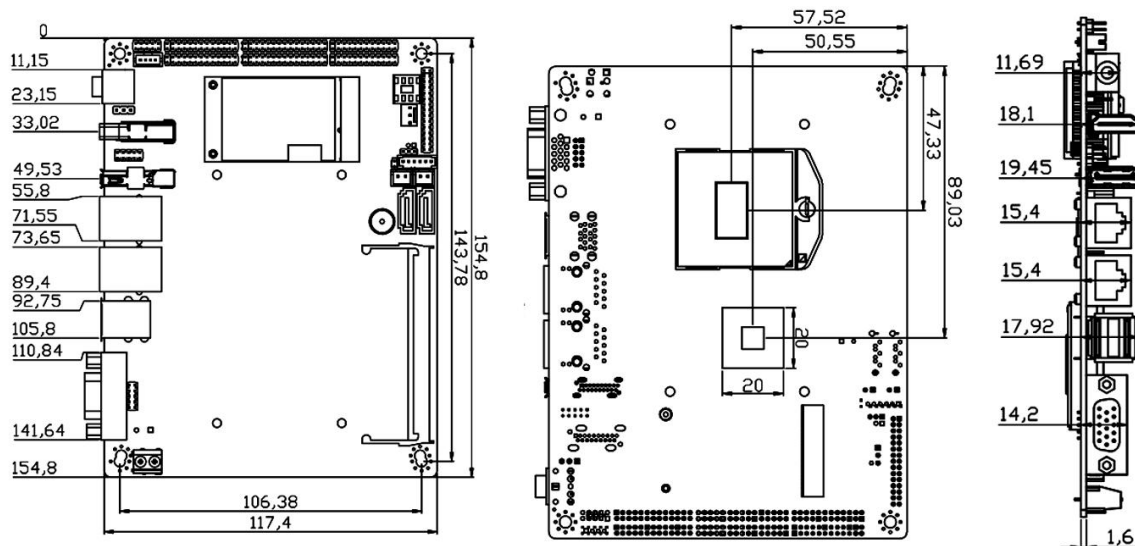
SPECIFICATION

Processor	CPU	Intel Mobile 4 th Haswell-M i3-i5-i7 CPU
	CPU Package	RPGA946 Socket
	Chipset	QM87/HM86/HM87
	BIOS	UEFI BIOS
RAM	Technology framework	Single channel DDR3 1066/1333/1600MHz
	Capacity	Integrated 2GB/4GB DDR3
	RAM Socket	1x RAM slot ,max. 12GB RAM(Optional)
Video	Graphic controller	Intel HD Graphics 4600,Graphic model depends on CPU
	Dual LVDS	dual channel 24bit LVDS,Resolution maximum:1920*1200
	HDMI	HDMI(1.4)Resolution maximum:3840*2160
	DP	Resolution maximum:3840*2160
	VGA	VGA Resolution maximum:2880*1800
	Double display support	LVDS + VGA,LVDS+HDMI,HDMI+VGA , LVDS+DP,DP+HDMI,VGA+DP Synchronous or asynchronous display
	Three Display support	LVDS+HDMI+VGA,VGA+HDMI+DP,LVDS+DP+VGA,LVDS+HDMI+DP Synchronous or asynchronous display
I/O Panel	I/O ports	1*VGA,1*HDMI,1*DP, 2*LAN,2*USB3.0,1*line-OUT
NETWORK	CONTROLLER	2*Intel I211 1000M LAN, RJ45 PORTS
AUDIO	CONTROLLER	Realtek HD ALC662 Audio((line-in,line-out,Mic)
Super I/O	CONTROLLER	IT8786E
HARDWARE MONITORING	Watchdog timer	0-255sec, sample code optional
	Cooler	Aluminum+copper heat sink with Fan
Input/Output Interface	USB	2*USB3.0 (compatible USB2.0 / 1.1), 6*USB2.0
	Serial ports	5*RS-232, 1*RS422/485 optional, RS485 supported automatic flow control
	PS/2	5×2 2mm Pin Headers
	Touch screen	Support Touch Panel (4wire 5wire 8wire)
EXPANSION BUS	GPIO	8bit,sample code, Free defination input or output ,3.3V@24mA
	Mini-PCle	1*Mini-PCle slot,Support PCIe and USB device
STORAGE	SMBUS	2pinSM-BUS Pin Headers
	SATA	2*Standard SATA3.0
POWER SUPPLY	M-SATA	1*M-SATA socket (SATA3.0)
	Power Type	Wide Voltage 8-36V
WORKING ENVIRONMENT	Power consumption	60w
	Working temperature	-20℃ ~ +60℃
	Storage temperature	-40℃ ~ +85℃
	Working humidity	0% ~ 90%(non-condensing)
MEASURE	Storage humidity	0% ~ 90%(non-condensing)
	Size	145 x 102 mm
CERTIFICATION	Weight	0.5kg
		CE,RoHS,FCC

HM87Z3A

Size

Unit: mm



Order Information

Model NO.	Description	CPU(Optional)
HM87Z3A-i3	Integrated Intel QM87/HM87 /QM86/HM86 chipset,Integrated Intel Mobile 4 th Haswell-M PGA947i3-4000M dual core 2.4Ghz,Integrated 4G/8GDDR3 (Up to 12GDDR3)	Support 4rd Intel Core™ i3 E.g.I3-4000M, I3-4100M
HM87Z3A-i5	Integrated Intel QM87/HM87 /QM86/HM86 chipset,Integrated Intel Mobile 4 th Haswell-M PGA947 i5-4200M dual core 2.5Ghz up to 3.1 Ghz,Integrated 4G/8GDDR3 (Up to 12GDDR3)	Support 4rd Intel Core™ i5 E.g.I5-4200M,I5-4300M
HM87Z3A-i7	Integrated Intel QM87/HM87 /QM86/HM86 chipset,Integrated Intel Mobile 4 th Haswell-M PGA947 i7-4700MQ quad core 2.4G up to 3.4 Ghz,Integrated 4G/8GDDR3 (Up to 12GDDR3)	Support 4rd Intel Core™ i5 E.g.I7-4700MQ、I7-4712MQ

Packing List

1*I/O Plate
1* driver cd
1*SATA cable
1*SATA-P power supply cable
1*COM cable

Accessories

Model	SPECIFICATION	MARK
Internal USB Cable	Cable length 32CM, 2*USB To Pin Header	Pin Header 2.0mm/2.54 optional Cable Length Optional
Internal COM Cable	Cable length 32CM, COM (DB9) to Pin Header	
Internal VGA Cable	Cable length 36CM, VGA to Pin Header	
Internal LPT Cable	Cable length 36CM, LPT to Pin Header	
More accessories, please contact Salesman (SSD, DC power supply, 3G/4G/WIFI model, LCD display etc)		

