1037F 1007F 2117F i3HGP i5HGP i7HGP Motherboard Feature Summary:	
Form Factor	Mini-ITX ,170*170*18(L*W*H),extra-thin.
Architecture	x86
Processor	TDP:17W, low power consumption,energy conservation; Support Intel Ivy Bridge 3rd generation FCBGA1023 processors; ❖ 1007F motherboard supports Intel Celeron dual cores 1.5GHz 1007U; ❖ 1037F motherboard supports Intel Celeron dual cores 1.8GHz 1037U; ❖ 2117F motherboard supports Intel Pentium dual cores 1.8GHz 2117U; ❖ i3HGP motherboard supports Intel Core dual cores i3-3217U(1.8GHz),i3-3227U(1.9GHz); ❖ i5HGP motherboard supports Intel Core dual cores i5-3317U(1.7GHz),i5-3337U(1.8GHz), i5-3437U(1.9GHz); ❖ i7HGP motherboard supports Intel Core dual cores i7-3517U(1.9GHz),i7-3537U(2.0GHz).
Chipset	Integrated Intel HM65/HM67/HM70/HM76/HM77 express chipset.
Graphics	Integrated Intel HD Graphics 4000 in CPU.
Memory	1*SODIMM laptop DDR3 1333/1600MHz Memory channel,Max 8GB RAM.
Heat Dissipation	Thin,cool,silent fan.
Power Supply	Support DC 12V 5A/7A/10A ;DC port: 5.5*2.5mm
Ethernet	1*Realtek 8111E Gigabit Ethernet RJ45 LAN port;Other option:Dual LAN ports. Support wake-on-LAN and PXE diskless boot function.
Display	Support single display,dual display copy&expansion,single display under DOS; Support H.264,3D,2K,1080P,FHD display; 1*VGA DB15 port supports Max resolution 1920*1200@60Hz; 1*HDMI 1.4 port supports Max resolution 1920*1080@60Hz; 1*LVDS pin supports Max resolution 1920*1080@60Hz.
External I/O ports	1*DC_IN, 1*HDMI, 1*VGA, 2*USB3.0, 2*USB2.0, 1*RJ45 LAN, 1*Line-Out, 1*Mic-In; Optional dual LAN ports. When the motherboard uses HM65/HM67 chipset,there is no USB3.0 ports; When the motherboard uses HM70/HM76/HM77chipset,there is 2*USB3.0 ports.
Built-in Pins	VGA,LVDS,JAMP,F_AUDIO,F_PANEL,2*COM/6*COM,LPT,CLR_CMOS,SIM card slot,Option GPIO,etc. When the motherboard has 2*COM pin,there will be no GPIO pin; When the motherboard has 6*COM pin,there will be 1*GPIO pin.
Sound	Integrated Realtek ALC662 HD digital audio decoder,6-channel high-fidelity audio controller.
Hard Disk	1*SATA2.0 port for 2.5inch SSD or HDD; 1*SATA3.0 port for 2.5inch SSD or HDD; 1*MSATA slot(SATA signal) for MSATA SSD; If you need NVME(PCIE) signal in MSATA slot,please tell us to change in advance.
Power Switch	Manually boot; 1*F_PANEL pin for switch, power light, hard disk light, restart.
Battery	3V CR2032 button Battery
WIFI	1*Mini PCIE slot(PCIE signal) supports WIFI module. If you need USB signal for 3G/4G/Bluetooth module,please tell us to change in advance.
COM(Serial port)	COM1,COM2,COM3,COM4,COM5,COM6 support RS232.
Operating Environment	Operating temperature:-20℃~60℃; Working humidity:5%~95% Relative humidity, no condensation.
Power On	By default,the motherboard does not support "Power On",if you need,please tell us to set in advance. The BIOS supports the power on settings.
BIOS	AMI BIOS;Support power on,timing switch,remote switch,intelligently identify devices.

Watch Dog	Watch Dog programming supports hardware reset function (256 levels, 0~255 seconds).
Operating System	Support Windows 10,Windows 8,Windows 7,Windows XP,Ubuntu 14.04,Ubuntu 16.04,etc.
Certificates	CE,CCC,ISO 9001:2015
Net Weight	0.45KG/piece
Accessories	Drive CD, hard disk data cable, SATA power supply cable.
Warranty	1 Year
MOQ	1 piece
Matched chassis (Optional,different prices)	HD4000,HD4001,HD4003,IPC6000,IPC6000-COM,A3001,IPC8000