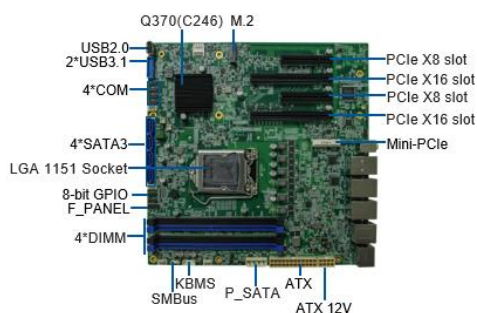
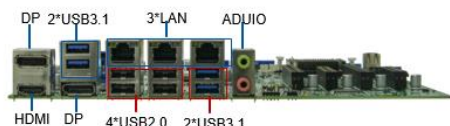


Embedded Single Board

IVTK-ESB-1961

Intel® Xeon® /8th Gen. Core I7/I5/I3 LGA1151 MicroATX, HDMI,2*DP, 3*LAN,4*COM 6*USB3.1, 7*USB2.0, 4*SATA3.0, TPM 2.0, ATX Power.



Key Features

- Intel® Xeon®/ 8th Gen. Core™ i7/i5/i3 processor
- Intel® Q370/C246 Chipset
- 4*DDR4 2666/2400MHz DIMM, Up to 64GB
- 1*PCIe x16 or 2*PCIe X8+ 2*PCIe x4 slot
- 2*DP, 1*HDMI, support 3 displays
- 3*LAN, 6*USB3.1, 7*USB2.0, 4*COM
- 1*Mini PCIe, support 4G/WiFi/GPS/GSM/BT
- 4*SATA3, 1*M.2 2280 M-Key(PCIe Gen3 x4)
- TPM2.0, Support AMT12.0, Intel® iVpro
- ATX Power(12V/5V/3.3V)

SPEC.

system	CPU	Intel® Xeon® E-2176G/2124G processor, LGA 1151 socket, TDP up to 80W 8th Gen. Intel® Core/Pentium/Celeron processor, LGA 1151 socket, TDP up to 95W
	Chipset	Intel® Q370, Intel® C246
	System Memory	4*288-Pin SODIMM, dual channel DDR4 2666/2400MHz, up to 64GB
	Expansion	1*Full size Mini PCIe(PCIe x1+USB) with SIM slot 2*PCIe X16 slot (PCIe Gen3, support 1 PCIe x16 device, When connecting 2 devices, it automatically switches to 2*PCIe X8) 2*PCIe X8 slot (PCIe Gen3, 2*PCIe X4 signal)
	Graphics	Intel® UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1
	Audio	DP max. res.4096*2304@60Hz, HDMI max. res. 3840*2160@30Hz, support 3 independent display
	LAN	Realtek ALC662VD controller, Support 5.1 channel
	Keyboard & Mouse	2*Intel I210AT PCIe Gig. Ethernet; 1*Intel I219LM PCIe Gig. Ethernet, support iVpro technology
	Storage	PS/2 & USB Keyboard and mouse
	DIO	4*SATA3, 6.0Gbps HDD/SSD support Raid 0/1/5/10; 1*M.2 2280 M-key, Support NVMe storage
	Internal I/O	8 bit TTL signal, programmable input and output
	Rear I/O	2*USB3.1 Gen2, 1*USB2.0 type A, 2*USB2.0 header, 4*COM header, PS/2 wafer 1*F_PANEL header (Power SW, Reset, LED, HDD LED), 8-bit DIO, 1*SM bus
	Switch&LED	3*RJ45 Gig-LAN 4*USB3.1 Gen2 Type A, 4*USB2.0 Audio out, Mic 1*HDMI +2*DP
	Security	Pin header inside(Power SW, Reset, LED, HDD LED)
Power Supply	Infineon TPM2.0	
Watchdog Timer	24-pin ATX/8-pin ATX 12V, Comsuption: TBD	
OS Support	Watchdog timeout programmable via software 1 to 255 second	
		Windows 10, Linux Ubuntu 16.04

