

KGEC-6310

Fanless Industrial Edge PC

with Intel® 8th Gen. CPU, 4x LAN, 4x USB, HDMI, DVI-D, 8-bit DIO



- Intel® Whiskey Lake-U 8th Gen. SoC
- 2x DDR4 2400 MHz SO-DIMM, up to 32GB
- 1x HDMI, 1x DVI-D
- 4x LAN, 2x USB3.1, 2x USB2.0, 2x COM, 8bit Digital I/O
- 1x M.2 2230 Key E
- 1x miniPCIe with SIM slot, support 4G LTE/WIFI/BT/CAN
- 1x mSATA, 1x 2.5" SATA3.0
- Support wall mounting and Din-Rail mounting
- 12~24V DC Wide Power supply



	Items	Descriptions
System	CPU	Intel® Whiskey Lake-U 8th Gen. SoC: Intel® Core™ i3-8145U (2.1GHz up to 3.9GHz, dual-core processor, TDP 15W), Intel® Core™ i5-8265U (1.6GHz up to 3.9GHz, quad-core processor, TDP 15W), Intel® Core™ i7-8565U (1.8GHz up to 4.6GHz, quad-core processor, TDP 15W), Intel® Celeron® 4305U (2.2 GHz, dual-core processor, TDP 15W)
	System Memory	2x 260-Pin SO-DIMM, dual channel DDR4 2133/2400 MHz, up to 32GB
	Expansion	1x full size miniPCIe (PCIe x1 & USB) with SIM slot, support 4G LTE/WIFI/BT/CAN module, 1x M.2 2230 Key E, with PCIe x1+USB2.0 signal, expansion of WIFI/BT module
	Graphics	Gen. 9th Intel® HD Graphics, HEVC/H265 HW HD en/decoder, DVI-D max resolution 2560x1600@60Hz, HDMI max resolution 4096x2304@60Hz, 2x independent display
	Audio	Realtek® ALC662 VD controller, Audio out and Mic high fidelity audio interface, support 5.1 channel
	LAN	3x Intel® I210AT PCIe Gb Ethernet, 1x Intel® I219LM PCIe Gb Ethernet, support iAMT12.0
	Storage	1x 2.5" SATA3.0 HDD / SSD, 1x mSATA full size support AHCI
	Digital IO	8 bit DIO (1x 10Pin phoenix)
	I-Port	Optional 1x LPT, USB2.0, 16bit DIO or miniPCIe and M.2 I/O ports (such as serial ports)
	I/O Ports	4x RJ45 Gb LAN 2x USB3.1 Type A, 2x USB2.0 Type A 8 bit DIO: 1x10pin phoenix 2x RS232/422/485 DB9 1x Audio out, 1x Mic 3.5mm phone jack 1x HDMI, 1x DVI-D
	LED	1x Power LED, 1x HDD LED, 3x CPU temperature control LED (Red is warning, Yellow is high, Green is normal)
	Control SW	1x Power button, 1x AT/ATX Select SW, 1x Clear CMOS Select SW
	Power Supply	DC 12~24V Input, 2x2-pin terminal connector, TDP: TBD
	Watchdog Timer	Watchdog timeout programmable via software 1 to 255 seconds
OS Support	Windows 10, Linux: Fedora, Ubuntu. RTOS: INtime, EC-Win, RTX-2014/2016, Ubuntu Preempt-RT	
Structure	Aluminum chassis, SGCC frame	
Mechanical	Color	Silk grey
	Mounting	Wall mounting, Din-Rail mounting
	Dimension (WxHxD)	202x151x81 mm
	Net weight	2,72kg
	Operating Temperature	-20°C ~ 60°C - wide operating temperature SSD
Environmental	Storage Temperature	-40°C ~ 85°C
	Storage Humidity	10~90%@40°C, non-condensing
	Vibration	5 grms/5~500Hz/random/in working (SSD); 1 grms/5~500Hz/random/in working (HDD)
	Shock	50g peak acceleration (11ms duration) (SSD); 20g peak acceleration (11ms duration) (HDD)
	EMC	CE / FCC Class B

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Ordering Information

Model No.	CPU	Descriptions
KGEC-6310/S001	Intel® Core™ i3-8145U	Industrial Edge PC, 2x DDR4 SO-DIMM, 4x LAN, 2x USB3.1, 2x USB2.0, 2x COM,8-bit DIO, 1x miniPCIe, 1x M.2, 1x DVI-D, 1x HDMI, 1x mSATA, 1x 2.5" SATA3.0, DC 12~24V
KGEC-6310/S002	Intel® Core™ i5-8265U	Industrial Edge PC, 2x DDR4 SO-DIMM, 4x LAN, 2x USB3.1, 2x USB2.0, 2x COM,8-bit DIO, 1x miniPCIe, 1x M.2, 1x DVI-D, 1x HDMI, 1x mSATA, 1x 2.5" SATA3.0, DC 12~24V
KGEC-6310/S003	Intel® Core™ i7-8565U	Industrial Edge PC, 2x DDR4 SO-DIMM, 4x LAN, 2x USB3.1, 2x USB2.0, 2x COM,8-bit DIO, 1x miniPCIe, 1x M.2, 1x DVI-D, 1x HDMI, 1x mSATA, 1x 2.5" SATA3.0, DC 12~24V
KGEC-6310/S004	Intel® Celeron® 4305U	Industrial Edge PC, 2x DDR4 SO-DIMM, 4x LAN, 2x USB3.1, 2x USB2.0, 2x COM,8-bit DIO, 1x miniPCIe, 1x M.2, 1x DVI-D, 1x HDMI, 1x mSATA, 1x 2.5" SATA3.0, DC 12~24V
PA-120DC19	AC/DC power adapter, DC 19V/6.32A 120W	

Dimensions

Unit: mm

