E-901EI-F series

6th/7th/8th/9th Generation Intel® Xeon®/Core™ i7/i5/i3 Processor, Fanless, Embedded System
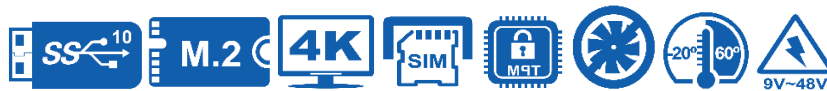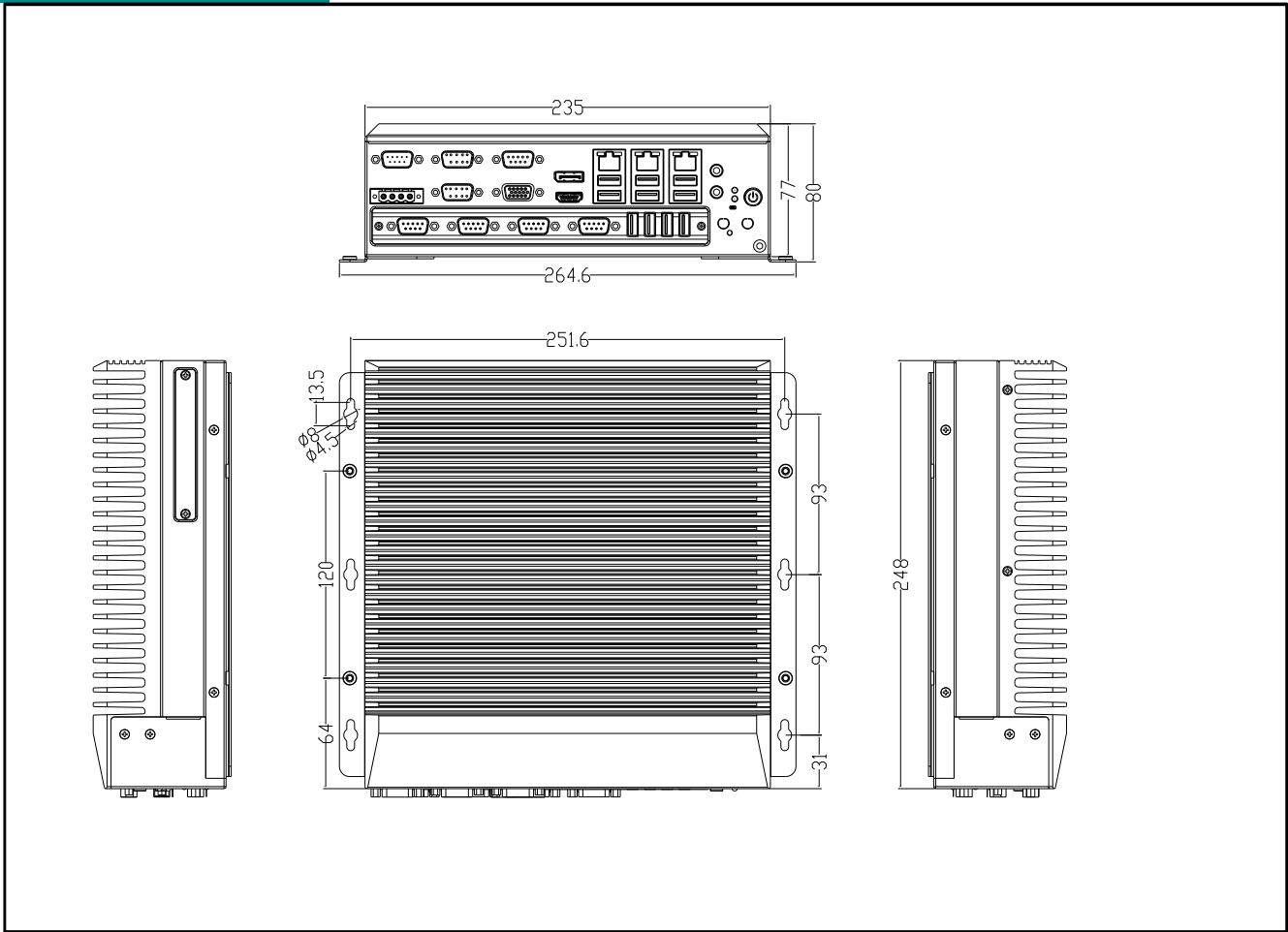
GE-901EI-F

GE-901EI-FL

GE-901EI-FC

GE-901EI-FG

Product Features

◆ Industrial-grade Intel® Q170 SoC, compatible with Intel® Xeon®/Core™ desktop processors (6th/7th/8th/9th Gen)

◆Fanless design, support -20℃~60℃ working temperature

◆2*DDR4 SO-DIMM, up to 32GB, dual channel support

◆VGA, HDMI and DP interface, up to 4K 60Hz resolution

◆1*M.2 B-Key supports 4G/3G, 1*M.2 E-Key supports WFI

◆ 1*M.2 M-Key storage interface, support SATA3.0/NVMe protocol

◆1* 2.5-inch hard drive extraction box, built-in a 2.5-inch hard drive, support SATA3.0

◆3*intel high-performance Gigabit Ethernet ports, support up to 9 Ethernet ports (daughter board)

◆4*COM(COM2/3 RS-232/422/485), support up to 8COM(sub board)

◆Wide voltage power supply DC 9-48V, with short circuit, over voltage and over current protection

Product Specifications

System		
	CPU	Intel® 6th/7th/8th/9th Gen Core™ i7/i5/i3/Pentium/Celeron LGA1151 processor, up to 8 cores and 16 threads
	Chipset	Intel® Q170 Chipset
	System Memory	2*260-Pin SODIMM, DDR4 2666/2400MHz, maximum support 32GB
	Expansion Ports	1*USB2.0 built-in, support dongle 1*M.2 E-Key 2230, support Gigabit WFI module 1*M.2 B-Key 2242/2252 can support PCIe/USB/external SIM card, support 4G and other wireless functions
	Display	Intel UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1 or PCIe X16 graphics card Display interface DP maximum resolution 4096*2304@60Hz, HDMI maximum resolution 4096*2160@24Hz, VGA maximum resolution 1900*1200@60Hz
	Audio	Realtek ALC662 HD audio, Audio out and MIC, support 5.1 channel
	Ethernet	1*Intel I211AT PCIe Gigabit Ethernet; 10/100/1000Mbps adaptive; 1*Intel I211AT PCIe Gigabit Ethernet; 10/100/1000Mbps adaptive 1*Intel I219LM PCIe Gigabit Ethernet; support iAMT12.0
	Storage	1*2.5" SATA3 hard disk extraction box, supports up to 6G bit/s transfer speed; 1*2.5"HDD, support 5~9.5mm, built-in 1*M.2 M-Key storage interface, support M.2 2242/2280 NVME PCIE standard SSD
	Expansion Daughter Board	Optional USB3.0/2.0, RJ45, 16-bit GPIO, remote switch and status indicator, or serial port
	I/O ports	3*RJ45 Giga-LAN 6*USB3.0 TYPE A, up to 5G bit/s transmission speed, 4*USB2.0 built-in pins, 1*LPT built-in pin, 1*PS/2 built-in pin 2*RS232/422/485 set by BIOS, 2*RS232, 2*RS232 built-in pins 1*Audio-out and 1*MIC 1*VGA+1*DP+1*HDMI
	Indicators	1*Power indicator, 1*HDD status indicator
	Control Switch	1*Power SW，1*Clear CMOS SW
	Power Requirements	DC IN 9-48V 4-pin Term. 5.08mm, with short circuit, over voltage and over current protection Power consumption: TBD
	TCPM/TPM	optional support TPM2.0
	Watchdog Timer	Watchdog Timer Programmable time-out interrupt or system reset, 1 to 255 seconds
	Operating System	Windows* 10 Enterprise & IOT Enterprise (64-bit) Ubuntu*、SuSe*、Redhat Enterprise* 1,2 Wind River* VxWorks* 7

Box Structure		
	Construction	Aluminum rectangular heat dissipation shell, SGCC box
	Color	dark blue + castor
	Installation Method	Desktop
	Size	(L*W*H)：248*235*77mm, with hanging ear：248*264.6*80mm
	Net Weight	5±0.2（unit：KG）

Environment		
	Working Temperature	-20 ~ 65℃, wide temperature SSD, air flow -10 ~ 55°C, normal temperature HDD, air flow
	Storage Temperature	-40°C~85°C
	Storage Humidity	10~90%, non-condensing

Product Size   unit：mm

Order Information

Model	
GE-901EI-F	Barebone system, Intel®6/7/8/9代 LGA1151 CPU, Q170/C236, 3*LAN, 6USB3.1 ，4*COM,1*VGA, 1*DP, 1*HDMI, Audio out, Mic ,DC 9-48V
GE-901EI-FL	Barebone system, Intel®6/7/8/9代 LGA1151 CPU, Q170/C236, 7LAN, 6USB3.1 ，4*COM, 1*VGA, 1*DP, 1*HDMI, Audio out, Mic,DC 9-48V
GE-901EI-FC	Barebone system, Intel®6/7/8/9代 LGA1151 CPU, Q170/C236, 3AN,10USB3.1 ， 8*COM, 1*VGA, 1*DP, 1*HDMI, Audio out, Mic,DC 9-48V
GE-901EI-FG	Barebone system, Intel®6/7/8/9代 LGA1151 CPU, Q170/C236, 3*LAN, 6USB3.1 ，4*COM ,1*VGA, 1*DP, 1*HDMI, Audio out, Mic,GPIO-16,1*remote switch, DC 9-48V
HKA12019063-XB	DC power adapter, DC19V/6.32A,120W