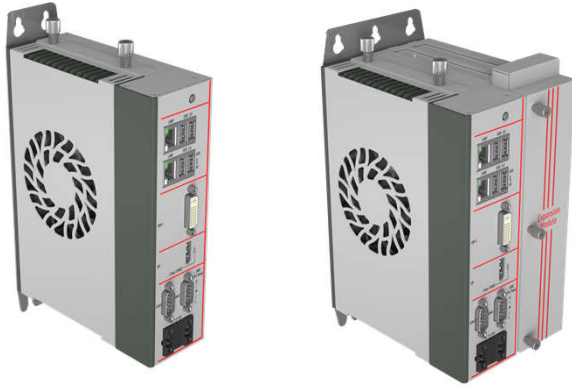


Edge Controller, KGEC Series

KGEC-6300

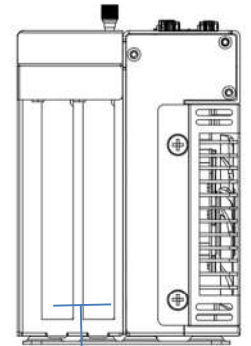
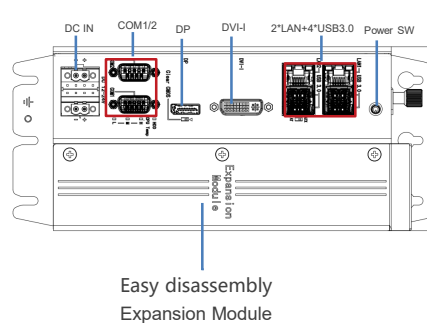
Intel® Skylake-S/Kabylake-S CPU, 2*LAN, 4*USB3.0, DP, DVI-I, 2*COM,
Modularization, RTOS, TSN



KGEC-6300 is a newly edge motion controller. It is powered by Intel® Skylake-S / Kabylake-S CPU, H110 Chipset, 1*DDR4 2133/2400MHz, up to 16GB. Rich IO interface, DP+ DVI-I, 2*LAN, all use Intel I210AT, optional support for EtherCAT protocol and CanOpen protocol, 4*USB3.0, 2*COM, 1*PCIe X4 slot, 1*32bit-PCI slot, support single slot, double slot, a variety of expansion options, 1*Mini PCIe, support 4G/Wifi/BT. 1*mSATA used for storage. DC 12~24V wide power input, support wall mounting and Din-Rail mounting. Adopt active and passive cooling design, fan wind speed can be intelligently controlled. BIOS optimized and support real-time system, Ubuntu Preempt-RT, optional support INTime. The extension module and the host are designed with easy disassembly, and the extension quantity is flexible. Different extension modules can be selected for different application scenarios, which are very suitable for Machine Vision, CNC control, Motion control and so on.

Key Features

- Intel® Kabylake-S/Skylake-S CPU, up to 65W
- CPU active and passive cooling design
- Intelligent temperature control fan, silent and dustproof
- DVI-I/DP the display signal can be extended without attenuation
- Dual I210 AT network chips, Optional support for a variety of real-time industrial Ethernet protocols
- BIOS optimization and support high real-time system
- 1*PCIe X4 slot/ 1*32bit-PCI slot
- Support software development platform (optional)
- DC 12~24V, Wide power supply
- Support wall mounting and Din-Rail mounting



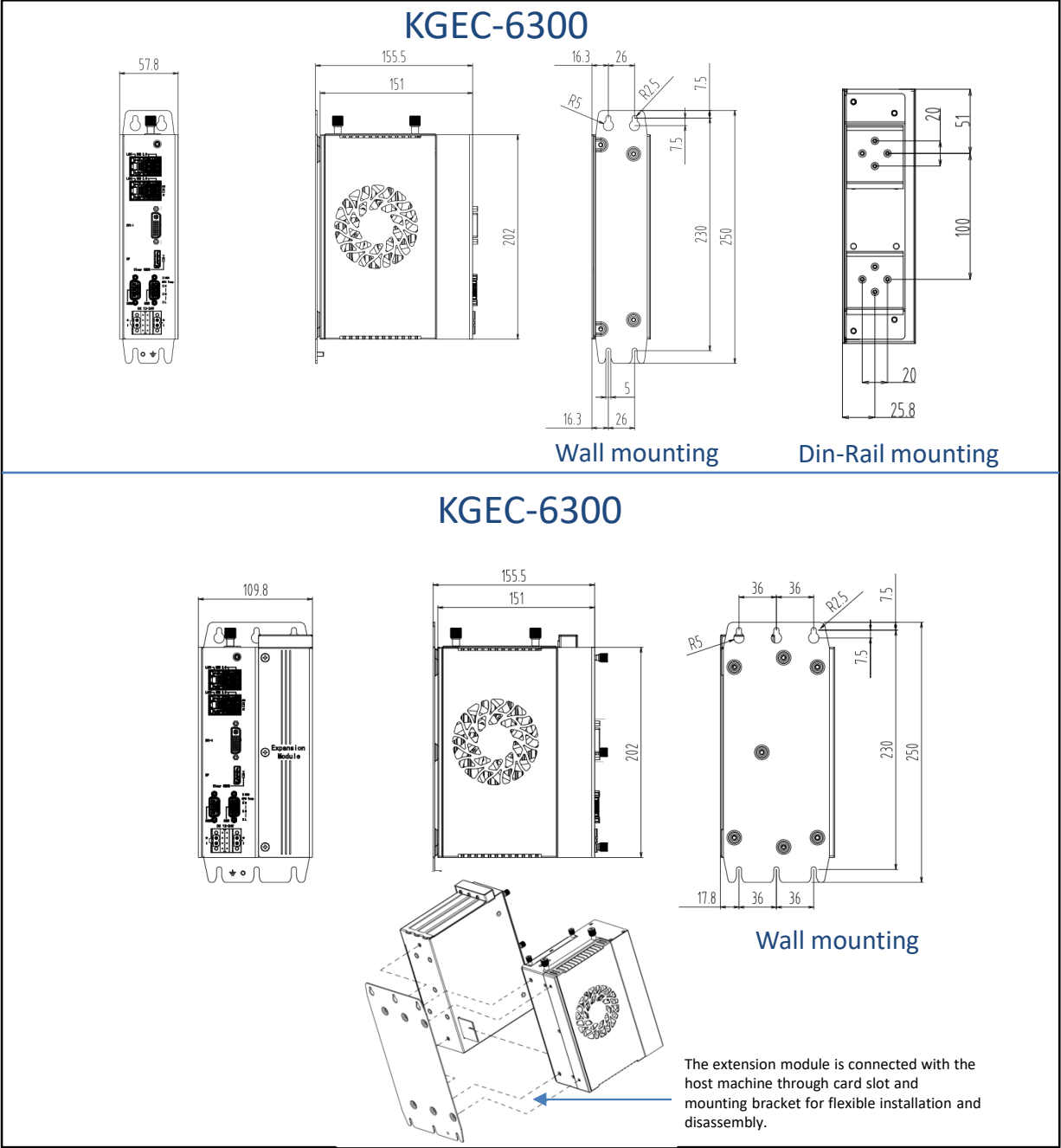
SPEC.

System	CPU	Gen.6th Intel® Skylake-S/gen.7th Intel® Kabylake-S Pentium/Core I3/I5/I7 CPU, LGA 1151 socket
	Chipset	Intel® H110
	System Memory	1*260-Pin SODIMM, DDR4 2400/2133MHz, up to 16GB
	Expansion	1*full size Mini PCIe (PCIe X1+ USB) with SIM slot, support 4G/Wifi/BT/CAN module 1*PCIe X4 slot with PCIe X1 1*32bit-PCI support motion control card, acceleration card and other functions of the expansion card
	Intel Graphics	Intel Gen. 9 HD Graphics, HEVC/H265 HW HD en/decoder DP max. res. 4096*2304@60Hz DVI-I(DVI-D+VGA) DVI-D max. res. 1920*1200@60Hz, VGA max. res. 2560*1600@60Hz
	LAN	2*Intel I210AT PCIe Gig. Ethernet, 10/100/1000Mbps ;
	Storage	1*mSATA full size(SATA & USB2.0)
	I/O ports	2*Gig-LAN(RJ45) 4*USB3.0(Type A) 2*RS232/422/485 with TVS Iso. (DB9) 1*DP+ 1*DVI-I
	LED	1*Power LED, 1*HDD LED, 3*CPU temp. LED (Red is warning, Yellow is high, Green is normal)
	Control SW	1*Power button, 1*AT/ATX Select SW, 1*Clear CMOS Select SW
	Power Supply	DC 12~24V Input, 2*2-pin ter. Connector, TDP: S001(19V/2.3A I7-7700K 4GB), S001(19V/2.6A I7-7700K 4GB)
	Watchdog Timer	Watchdog timeout programmable via software 1 to 255 second
	OS Support	RTOS: INtime, EC-Win, RTX-2014/2016 and Ubuntu Preempt-RT Windows 7, Windows 10, Linux Fedora Ubuntu (Note: Gen.7th Intel® Kabylake-S processors don't support Windows 7)
Mechanical	Structure	Aluminum chassis, SGCC frame
	Color	Silk grey
	Mounting	Wall-mounting, Din-Rail mounting
	Dimension	(W*H*D) : S001(202*151*57.8mm), add expansion card total: (202*151*109.8mm)
	Net weight	S001: 2.52KG add expansion card total: 3.52KG

Environ- mental	Operating temperature	-20°C~60°C, wide operating temp. SSD
	Storage Temperature	-40°C~85°C
	Storage Humidity	10~90%@40°C, Non-condensing
	Vibration	5grms/5~500Hz/random/in working(SSD); 1grms/5~500Hz/random/in working(HDD)
	Shock	50g peak acceleration(11ms duration)(SSD); 20g peak acceleration(11ms duration)(HDD)
	Certification/EMC	CE/FCC Class B

Dimension

Unit:mm



Ordering Info.

Model No.	Introduction
KGEC-6300/S001	Edge controller, Intel® Skylake-S/Kabylake-S LGA1151 CPU, H110 Chipset, 1*DDR4, 2*LAN, 4*USB3.0, 2*COM, 1*Mini PCIe, 1*DVI-I, 1*DP, 1*mSATA, DC 12~24V
1 slot expansion component	1*PCIeX4 slot (X1 signal) or 1*PCI single expansion slot
2 slot expansion component	1*PCIeX4 slot (X1 signal) +1*PCI dual expansion slot
PA-120DC19	AC/DC power adapter, DC19V/6.32A 120W

Support CPU List

Series	Intel® Core™				Intel® Pentium®			
7 th Gen	I3-7100	2C/4T	I5-7500	4C/4T	I7-7700	4C/8T	G4600	2C/2T
	I3-7100T	2C/4T	I5-7500T	4C/4T	I7-7700T	4C/8T		
6 th Gen	I3-6100	2C/4T	I5-6500	4C/4T	I7-6700	4C/8T	G4400	2C/2T
	I3-6100T	2C/4T	I5-6500T	4C/4T	I7-6700T	4C/8T		

*All specifications and photos are subject to change without notice.
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