



**// ABC Controller KGEC-6301**

**Intel® Skylake-S/Kabylake-S CPU,  
2 x LAN, 4 x POE, 4 x USB3.0, DP,  
DVI-I, 2 x COM, 16-bit Iso. DIO,  
Modularization, RTOS.**

You can find the latest software updates and prices on: [www.abcit.eu](http://www.abcit.eu)

**BENEFITS & FEATURES**

Intel® Skylake-S/Kabylake-S CPU, 2 x LAN, 4 x POE, 4 x USB3.0, DP, DVI-I, 2 x COM, 16-bit Iso. DIO, Modularization, RTOS.

- 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
- 4 x I210 AT chip POE camera interface and 16-bit iso. DIO
- 1 x PCIe X4 slot, 2 x 32bit-PCI slot
- Support software development platform (optional)
- DC 12~24V, Wide power supply
- Support wall mounting and Din-Rail mounting

**TECHNICAL DATA**

**SYSTEM**

**CPU**

Gen.6th Intel® Skylake-S/Gen.7th Intel® Kabylake-S Pentium/Core I3/I5/I7 CPU, LGA 1151 socket

Series	Intel®Core™						Intel®Pentium®			
	i3-7100	2C/4T	i5-7500	4C/4T	i7-7700	4C/8T	G4600	2C/2T	G4600T	2C/2T
7. Gen.	i3-7100T	2C/4T	i5-7500T	4C/4T	i7-7700T	4C/8T	G4400	2C/2T	G4400T	2C/2T
6. Gen.	i3-6100	2C/4T	i5-6500	4C/4T	i7-6700	4C/8T				
	i3-6100T	2C/4T	i5-6500T	4C/4T	i7-6700T	4C/8T				

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## TECHNICAL DATA

<b>Chipset</b>	Intel® H110
<b>System Memory</b>	1 x 260-Pin SODIMM, DDR4 2400/2133MHz, up to 16GB
<b>Expansion</b>	1 x full size Mini PCIe (PCIe X1+USB) with SIM slot,support 4G/Wifi/BT/CAN module 1 x PCIe X4 slot with PCIe X1 2 x 32bit-PCI support motion control card, acceleration card and other functions of the expansion card
<b>Intel Graphics</b>	Intel Gen. 9 HD Graphics,HEVC/H265 HW HD en/decoder DP max. res. 4096 x 2304@60Hz DVI-I(DVI-D+VGA) DVI-D max. res. 1920 x 1200@60Hz, VGA max. res. 2560 x 1600@60Hz
<b>LAN</b>	2 x Intel I210AT PCIe Gig. Ethernet, 10/100/1000Mbps; 4 x Intel I210AT PCIe Gig. Ethernet with POE function,802.3af(15.4W)
<b>Storage</b>	1 x 2.5" SATA 3.0 HDD/SSD, 1 x mSATA full size (SATA & USB2.0)
<b>DIO</b>	16-bit DIO (20-pin phoenix) 8-bit Iso. DI (High:5-24V, Low:0-1.5V) and 8-bit Iso. DO (200mA)
<b>E/A-ports</b>	2 x Gig-LAN(RJ45) 4 x POE (RJ45) 4 x USB3.0 (Type A) 1 x MIO with CAN, Uart Signal (DB9) 2 x RS232/422/485 with TVS Iso. (DB9) 1 x DP + 1 x DVI-I
<b>LED</b>	1 x Power LED, 1 x HDD LED, 3 x CPU temp. LED (Red is warning, Yellow is high, Green is normal)
<b>Control SW</b>	1 x Power button, 1 x AT/ATX Select SW, 1 x Clear CMOS Select SW
<b>Power Supplyg</b>	DC 12~24V Input, 2 x 2-pin ter. Connector, TDP: S001(12V/4.1A I7-6700T 4GB), T001(12V/4.4A I7-6700T 4GB)
<b>Watchdog Timer</b>	Watchdog timeout programmable via software 1 to 255 seconds
<b>OS</b>	Windows 7, Windows 10, Linux RTOS: INtime, EC-Win, RTX-2014/2016, Ubuntu Preempt-RT

## MECHANICAL & ENVIRONMENTAL

<b>Construction</b>	Aluminum chassis, SGCC frame
<b>Mounting</b>	Wall-mounting, Din-Rail mounting
<b>Dimension ( W x H x D)</b>	S001(202 x 151 x 80,8mm) T001(202 x 151 x 151mm)
<b>Weight</b>	S001: 3 kg, T002: 4,4 kg
<b>Operating Temperature</b>	-20°C ~ 60°C, wide operating temp. SSD
<b>Storage Temperature</b>	-40°C ~ 85°C
<b>Storage Humidity</b>	10~90% bei 40°C, Non-condensing
<b>Vibration</b>	5grms/5~500Hz random/in working(SSD); 1grms/5~500Hz random/in working(HDD)
<b>Shock</b>	50gr. peak acceleration (duration 11ms) (SSD) 20gr. peak acceleration (duration 11ms) (HDD)
<b>EMC</b>	CE/FCC Class B