

KMDA-3920

Industrial Computer

with Intel® Kaby Lake-S i3/i5/i7 CPU and PCIe x16 and PCIe x4 Slots



- Intel® Kaby Lake-S i3/i5/i7 CPU with fanless cooling
- 2x DDR4 2133/2400 MHz SODIMM, up to 32GB
- 1x DP, 1x HDMI, 1x VGA
- 2x LAN, 4x USB3.0, 3x USB2.0, 4x COM, 8bit Digital I/O
- PCIe x16 and PCIe x4 or 2x PCI expansion slots with fan cooling
- 1x miniPCIe (PCIe & USB), 1x M.2 2242 Key B
- 1x mSATA, 2x 2.5" SATA with Raid 0,1 support
- Intel® vPro and TPM2.0
- 12~24V DC Wide Power Input



	Items	Descriptions
System	CPU	7th Gen. Intel® Kaby Lake-S Celeron®/Pentium®/Core™ i3/i5/i7 CPU, LGA 1151 socket
	Chipset	Intel® Q170, optional Intel® H110
	System Memory	2x 260-Pin SODIMM, dual channel DDR4 2133/2400 MHz, up to 32GB
	Expansion	1x full size miniPCIe (PCIe & USB) with SIM slot, support 4G LTE/WiFi/BT module, 1x PCIe x16 and 1x PCIe x4 slots, support GeForce® GTX 1660 Ti GPU (<225mm length), Optional 2x PCI expansion slots, support for installation of multiple function modules via I-port
	Graphics	Gen. 9th Intel® HD Graphics, HEVC/H265 HW HD En/Decoder, DP 1.2 max resolution 4096x2304@60Hz, HDMI 1.4B max 3840x2160@30Hz, VGA max 1920x1200@60Hz, 3x independent display
	Audio	Realtek® ALC662 VD controller, Audio out and Mic
	LAN	1x Intel® I211AT PCIe Gb Ethernet, 1x Intel® I219LM PCIe Gb Ethernet, support iVpro (Q170)
	Storage	2x 2.5" HDD / SSD bay, support RAID0/1 (only with Intel® Q170 Chipset) 1x mSATA, 1x M.2 2242 B-Key (SATA&USB)
	Digital IO	8 bit DIO(Front)+16-bit DIO(inside), TTL signal, programmable input and output
	I-Port	Optional 1x LPT, USB2.0, 16bit DIO or miniPCIe and M.2 I/O ports (such as serial ports)
	I/O Ports	2x RJ45 Gb LAN (Front) 4x USB3.0 Type A (Front), 2x USB2.0 Type A (Front), 1x USB2.0 Type A (Inside) 8 bit DIO: 2x5pin terminal, 1x PS/2 (Front) 2x RS232/422/485 DB9 (Front), 2x RS232 DB9 (Front) 1x Audio out, 1x Mic (Front) 1x HDMI, 1x DP, 1x VGA (Front)
	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 2pin ter. power-on signal 1x AT/ATX Select SW, 1x Clear CMOS Select SW
	Power Supply	DC 12~24V Input, 3-pin terminal connector (Front), Consumption: TDP 19W/3.62A (i7-6700T CPU, 4GB DDR4, 1TB HDD, with function module)
	Watchdog Timer	Watchdog timeout programmable via software 1 to 255 seconds
OS Support	Windows 10, Linux: Fedora, Ubuntu	
Mechanical	Structure	Aluminum chassis, SGCC frame
	Color	Silver grey
	Mounting	Desktop mounting, wall mounting
	Dimension (WxHxD)	220x 250x131 mm
	Net weight	4,65kg
Environmental	Operating Temperature	-20°C ~ 65°C - Fanless, with 35W CPU, with wide operating temperature SSD and airflow -10°C ~ 55°C - Fanless, with 35W CPU, with HDD and airflow
	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

Part No.	Descriptions
KMDA-3920/S001	Industrial Computer, Intel [®] H110, Kaby Lake-S Core™ i3/i5/i7 LGA1151 CPU, 2xDDR4, 2xLAN, 4xUSB3.0, 3xUSB2.0, 4xCOM, 1xmini PCIe, PCIe x16+PCIe x4/2xPCI, 1xHDMI, 1xDP, 1xVGA, Audio out, Mic, 8-bit DIO, 1xPS/2, 1xI-port, 2x2.5" SATA bay, 1xM.2, 1xmSATA, DC 12~24V, TPM2.0
KMDA-3920/S002	Industrial Computer, Intel [®] Q170, Kaby Lake-S Core™ i3/i5/i7 LGA1151 CPU, 2xDDR4, 2xLAN, 4xUSB3.0, 3xUSB2.0, 4xCOM, 1xmini PCIe, PCIe x16+PCIe x4/2xPCI, 1xHDMI, 1xDP, 1xVGA, Audio out, Mic, 8-bit DIO, 1xPS/2, 1xI-port, 2x2.5" SATA bay, 1xM.2, 1xmSATA, DC 12~24V, TPM2.0
PA-120DC19	AC/DC power adapter, DC 19V/6.32A 120W
PA-220DC24	AC/DC power adapter, DC 24V/9.17A 220W
AC-140	8-channel optical isolation input / 8-channel high-power relay board

Dimensions

Unit: mm

