

KMDA-3602

Industrial Computer

with Intel® Kaby Lake-S i3/i5/i7 Processor, NVIDIA GPU and PoE LAN-Ports



- Intel® Skylake-S / Kaby Lake-S i3/i5/i7 CPU
- 2x DDR4 2133/2400 MHz SO-DIMM, up to 32GB
- 3x LAN, 4x PoE, 6x USB3.0, 3x USB2.0
- 1x MXM 3.1 socket for NVIDIA/AMD GPU
- Display Interfaces:
CPU: 1x DP, 1x HDMI (4K), 1x VGA
GPU: 3x DP, 1x HDMI
- 2x COM, 16bit Isolated DIO
- 2x miniPCIe (PCIe & USB), 1x M.2 2242 Key B
- 1x mSATA, 1x 2.5" SATA bay, Anti-vibration design
- 6~48V DC Wide Power Input, ITPS Function



KMDA-3602 is a high performance In-vehicle computer with newest cooling design. It is powered by Skylake-S / Kaby Lake-S CPU and dual DDR4 2133 MHz SO-DIMM memory. It features NVIDIA or AMD MXM3.1x GPU module, 1x DP and 1x HDMI (Intel® HD 4K), 3x DP and 1x HDMI (GPU 4K), 3x LAN, 4x POE, 6x USB3.0, 2x miniPCIe and 1x M.2 which supports 4G,Wifi/BT and GPS communication, 1x mSATA and 1x 2.5"SATA bay, DC6~48V wide power input, ITPS delay power on/off function. With CPU and GPU dual processor, multi LAN, multi display, multi wireless communication and anti-vibration design, it is suitable for mobile use in various vehicles and in applications where multiple LAN and 4K-Displays are required.

	Items	Descriptions
System	CPU	6th Gen. Intel® Skylake-S / 7th Gen. Intel® Kaby Lake-S Celeron®/Pentium®/Core™ i3/i5/i7 CPU, LGA 1151 socket, suffix T(TE), TDP 35W
	Chipset	Intel® Q170, optional Intel® H110
	System Memory	2x 260-Pin SO-DIMM, dual channel DDR4 2133/2400 MHz, up to 32GB
	Expansion	1x full size miniPCIe (PCIe & USB) with SIM slot, 1x M.2 2242 Key B (PCIe X1 & SATA3 & USB) with SIM slot, 1x half size miniPCIe (PCIe & USB), 1x full size mSATA (SATA3 & USB), support 2x 4G LTE or WiFi/GPS
	Graphics	Gen. 9th Intel® HD Graphics, HEVC/H265 HW HD en/decoder DP 1.2 max 4096x2304@60Hz, HDMI 1.4B max 3840x2160@30Hz, VGA max 2650x1600@60Hz, 3 in depended display
	GPU	MXM3.1 NVIDIA GTX/AMD RX series GPU module, supports 3x DP1.2/1.3 and 1x HDMI 1.4b/2.0 4K/5K displays
	Audio	Realtek ALC662 VD controller, Audio out and Mic
	LAN	2x Intel® I210AT PCIe Gb Ethernet, 1x Intel® I219LM PCIe Gb Ethernet , supports Intel® vPro™ 4x Intel® I210AT Ethernet with PoE function, TDP 15.4W/port
	Storage	1x 2.5" HDD / SSD bay, SATA 6.0Gbps, cooling by chassis, 1x mSATA, 1x M.2 2242 Key B
	Digital IO	16 bit 2.5KV optical iso. DIO, 8bit input (High: 5-24V; Low: 0-1,5V) & 8 bit output(100mA)
	I-Port	Optional 1x LPT, 16bit DIO or miniPCIe and M.2 I/O ports (such as CAN bus ports)
	I/O Ports	7x RJ45 Gb LAN and PoE(Front) 6x USB3.0 Type A (Front), 2x USB2.0 Type A (Rear), 1x USB2.0 Type A (Inside) 8 bit DI: 1x10-pin terminal; 8 bit DO: 1x10-pin terminal (Front) 2x RS232/422/485 DB9 (Rear) 1x Audio out, 1x Mic, 3,5mm phone jack (Rear) 1x HDMI, 1x DP, 1x VGA (Front); 3x DP and 1x HDMI(Rear)
	LED	1x Power LED, 1x HDD LED, 3x CPU thermal conditions LED (Red for warning, Yellow for high temperature, Green for normal operating temperature)
	Control SW	1x Power button, 1x Reset button (Front); 1x 2pin terminal power-on signal (Rear), 1x AT/ATX Select dip (Front)
	Power Supply	DC 6~48V ITPS w/ACC signal in 5-pin terminal connector (Front), Consumption: TDP 24V/4.83A (i5-7500T CPU and GTX 1060M)
Watchdog Timer	Watchdog timeout programmable via software 1 to 255 seconds	
OS Support	Windows 7, Windows 10, Linux: Fedora, Ubuntu	
Mechanical	Structure	Aluminum chassis, SGCC frame and SGCC cover
	Color	Silver
	Mounting	Desktop mounting with Anti-Vibration plane
	Dimension (WxHxD)	284 x 222 x 81.2mm
	Net weight	5.60 kg
Environmental	Operation temperature	-20°C ~ 65°C - with 35W CPU without GPU, with wide operating temperature SSD,airflow -10°C ~ 50°C - with 35W CPU and 80W GPU

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Items	Descriptions
Storage temperature	-40°C ~ 85°C
Storage Humidity	10~90%@40°C, non-condensing
Vibration	5.5 grms/5~500Hz/random/in working status(SSD); 1.5 grms/5~500Hz/random/in working status(HDD)
Shock	55g peak acceleration (11ms duration) (SSD); 25g peak accel. (11ms duration) (HDD)
Certifications	E-Mark, CE / FCC Class A

Ordering Information

Part No.	Descriptions
KMDA-3602/S001	Industrial Computer, Intel® Q170 + Kaby Lake-S i3/i5/i7 LGA1151 CPU, MXM3.1 GPU-socket, 3xLAN, 4xPoE, 6xUSB3.0, 3xUSB2.0, 2xCOM, 16bit isolated DIO, 1xM.2, 2xminiPCIe, 2xHDMI, 4xDP, 1xVGA, Audio, 1x I-port, 1x2.5" SATA bay, 1xmSATA, ITPS DC 6~48V
KMDA-3602/T001	Industrial Computer, Intel® Q170 + Kaby Lake-S i3/i5/i7 LGA1151 CPU, 7xLAN, 6xUSB3.0, 3xUSB2.0, 2xCOM, 16bit isolated DIO, 1xM.2, 2xminiPCIe, 1xHDMI, 1xDP, 1xVGA, Audio, 1xI-port, 1x2.5" SATA bay, 1xmSATA, ITPS DC 6~48V without PoE, without GPU
NVIDIA GT 1030	MXM3.1 Type A, NVIDIA GT 1030, GDDR5 2GB, 64bit, 384 CUDA cores
NVIDIA GTX 1050TI	MXM3.1 Type A, NVIDIA GTX 1050TI, GDDR5 4GB, 128bit, 768 CUDA cores
NVIDIA GTX 1060	MXM3.1 Type B, NVIDIA GTX 1060, GDDR5 6GB, 192bit, 1280 CUDA cores
PA-220DC24	AC/DC power adapter, DC 24V/9,17A 220W
PA-120DC19	AC/DC power adapter, DC 19V/6,32A 120W

Dimension

Unit: mm

