

GPU In-vehical Computer, KMDA Series

KMDA-3602

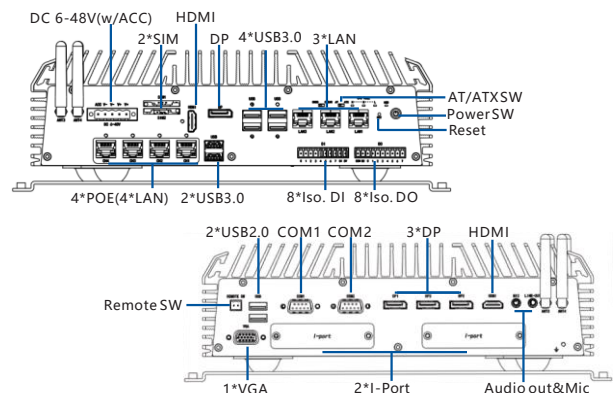
Intel® Skylake-S/Kabylake-S Core I3/I5/I7 CPU, 3*LAN, 4*POE, 6*USB3.0, MXM3.1 GPU, 6*4K display, 16-bit Isolated DIO, ITPS, DC 6~48V



KMDA-3602 is a high performance In-vehicle computer from JHCTECH, with newest cooling design. It is powered by Skylake-S/Kabylake-S CPU, and Dual DDR4 2133MHz SODIMM memory. It features NVIDIA or AMD MXM3.1 GPU module, 1*DP and 1*HDMI(Intel HD 4K), 3*DP and 1*HDMI (GPU 4K), 3*LAN, 4*POE, 6*USB3.0, 2*Mini PCIe and 1*M.2 which support 4G, Wifi/BT and GPS communication, 1*mSATA and 1*2.5" SATA bay. DC6-48V wide power input, ITPS delay power on/off function. With CPU+ GPU dual processor, multi LAN, multi display, multi wireless communication and anti-vibration design, it is suitable for mobile law enforcement vehicle and special engineering vehicle.

Key Features

- Aluminum Chassis, CPU Fanless Cooling
- Intel® Kabylake-S/Skylake-S Core I3/I5/I7 CPU
- 2*DDR4 2133/2400MHz SODIMM, Up to 32GB
- 1*MXM 3.1 socket, support NVIDIA/AMD GPU
- CPU: 1*DP+ 1*HDMI+ 1*VGA, GPU: 3*DP+ 1*HDMI
- 3*Gig LAN, 4*POE, 6*USB3.0, 3*USB2.0
- 2*COM, 16bit Isolated DIO, Audio out and Mic
- 2*Mini PCIe (PCIe+ USB), 1*M.2 2242 B-Key
- 1*mSATA, 1*2.5" SATA bay, Anti-vibration design
- DC 6~48V Wide Power, ITPS Function



SPEC.

System	CPU	Gen. 6th Intel® Skylake-S/gen. 7th Intel® Kabylake-S Celeron/Pentium/Core I3/I5/I7 CPU, LGA 1151 socket
	Chipset	Intel® Q170
	System Memory	2*260-Pin SODIMM, dual channel DDR4 2133/2400MHz, up to 32GB
	Expansion	1*Full size Mini PCIe with PCIe+ USB and SIM slot, 1*Half size Mini PCIe with PCIe+ USB, 1*M.2 2242 B-key with PCIe+ SATA3+ USB, 1*Full size mSATA(SATA3+ USB), support 4G LTE/Wifi and BDS/GPS
	Intel Graphics	Gen. 9th Intel® HD Graphics, HEVC/H265 HW HD en/decoder, DP1.2 max. res. 4096*2304@60Hz, HDMI1.4b max. res. 3840*2160@30Hz, VGA max. res. 2650*1600@60Hz, 3 independent display
	GPU	MXM3.1 NVIDIA GTX/AMD RX series GPU module, support 3*DP1.2/1.3 and 1*HDMI1.4b/2.0 4K/5K display
	Audio	Realtek ALC662VD controller, Audio out and MIC
	LAN	2*Intel I210AT PCIe Ethernet; 4*Intel I210AT POE, TDP 15.4W/port; 1*Intel I219LM support iVpro
	Storage	1*2.5" HDD/SSD bay, SATA 6.0Gbps; 1*mSATA; 1*M.2 2242 B-key
	DIO	16 bit 2.5KV Optical Isolation DIO, 8 bit input(High:5-24V, Low:0-1.5V) and 8bit output(200mA)
	I-port	Optional 1*LPT, 16bit DIO or Mini PCIe and M.2 I/O ports(such as CAN bus ports)
	I/O ports	3*RJ45 Gig-LAN, 4*RJ45 Gig-POE (Front) 6*USB3.0 Type A (Front); 2*USB2.0 Type A(Rear), 1*USB2.0 Type A(Inside) 8bit DI:1*10-pin ter. connector and 8bit DO: 1*10-pin ter. connector(Front) 2*RS232/422/485 DB9(Rear) 1*Audio-out and 1*MIC, 3.5mm phone jack(Rear) 1*HDMI + 1*DP+ 1*VGA(Front); 3*DP+ 1*HDMI(Rear)
	LED	1*Power LED, 1*HDD LED, 3*CPU term. LED (Red is warning, Yellow is high, Green is normal)
	Control SW	1*Power button, 1*Reset button; 1*2pin ter. power-on signal, 1*AT/ATX sw, 1*CMOS/Clear sw

Power Supply

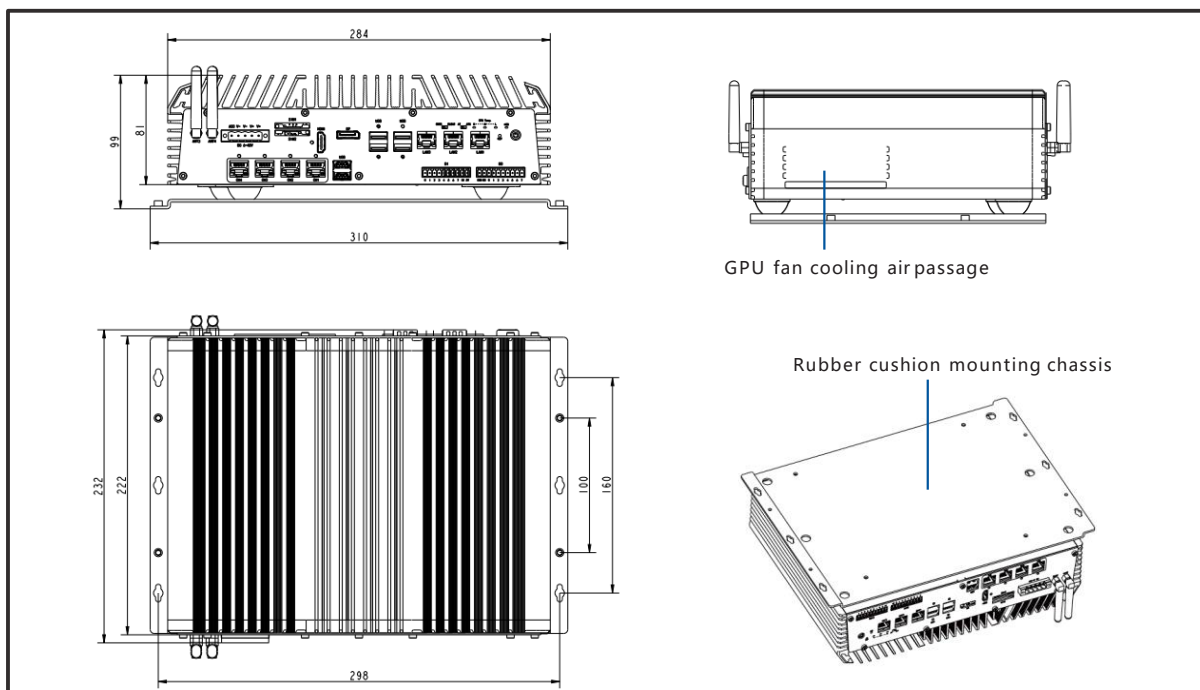
Watchdog Timer

OS Support

Mechanical	Structure	Aluminum chassis, SGCC frame and SGCC cover
	Color	Silver and Grey
	Mounting	Desktop Mounting, with Anti-Vibration plane
	Dimension	(W*H*D) : 284*222*81mm
	Net weight	5.60kg (without GPU module)
Environmental	Operating temperature	-20°C ~ 65°C – Fanless, 35W CPU without GPU, and with wide operating temp. SSD, airflow -10°C ~ 50°C – Fanless, 35W CPU+ 80W GPU
	Storage Temperature	-40°C~85°C
	Storage Humidity	10~90%@40°C, Non-condensing
	Vibration	5.5 grms/5~500Hz/random/in working(SSD); 1.5 grms/5~500Hz/random/in working(HDD)
	Shock	55g peak acceleration(11ms duration)(SSD); 25g peak acceleration(11ms duration)(HDD)
	Certification/EMC	E-Mark, CE/FCC Class B

Dimension

Unit:mm



Ordering Info.

Model No.	Introduction
KMDA-3602/S001	GPU In-Vehical Computer, Intel® Q170+SKL/KAL-S LGA1151 CPU, MXM3.1 GPU, 3*LAN, 4*POE, 6*USB3.0, 3*USB2.0, 2*COM, 16*Iso. DIO, 1*M.2, 2*Mini PCIe, 2*HDMI, 4*DP, 1*VGA, Audio out, Mic, 2*I-port, 1*2.5" SATA bay, 1*mSATA, ITPS DC 6~48V
KMDA-3602/T001	GPU In-Vehical Computer, Intel® Q170+SKL/KAL-S LGA1151 CPU, 7*LAN, 6*USB3.0, 3*USB2.0, 2*COM, 16*DIO, 1*M.2, 2*Mini PCIe, 1*HDMI, 1*DP, 1*VGA, Audio out, Mic, 2*I-port, 1*2.5" SATA bay, 1*mSATA, ITPS DC 6~48V
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

*All specifications and photos are subject to change without notice.
www.jhctech.com © 2019 Jhctech.Co., Ltd. All rights reserved.
Updated Aug., 27th, 2019