



The webinar is about to start...









Gary
Customer Solution Manager

JHCTECH Shenzhen Office

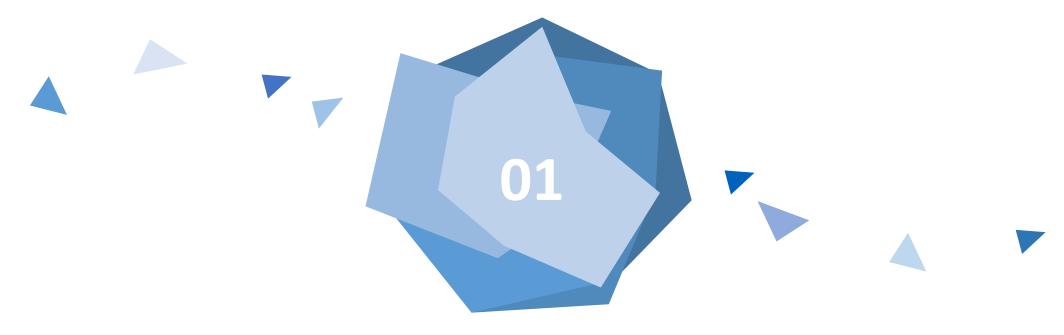
NEW PRODUCT LAUNCH





Product Launch Announcement		
Time	Agenda	
16:00 ~ 16:05	Opening Chi Wang, Marketing Manager, Shenzhen Office	
16:05 ~ 16:25	Introduction of New Product Unmanned Forklift & Machine Vision Dedicated Controller KMDA-7611 Gary Shu, Customer Solution Manager, Shenzhen Office	
16:25 ~ 16:45	Introduction of New Product Large-sized Expandable Industrial Panel PC ALAD-K2350T(P) Reese Li, Customer Solution Manager, Shenzhen Office	
16:45 ~ 16:55	Q&A	

Introduction of JHCTECH's New Products



Unmanned Forklift & Machine Vision Dedicated Controller --- KMDA-7611

Gary Shu, Customer Solution Manager, Shenzhen Office





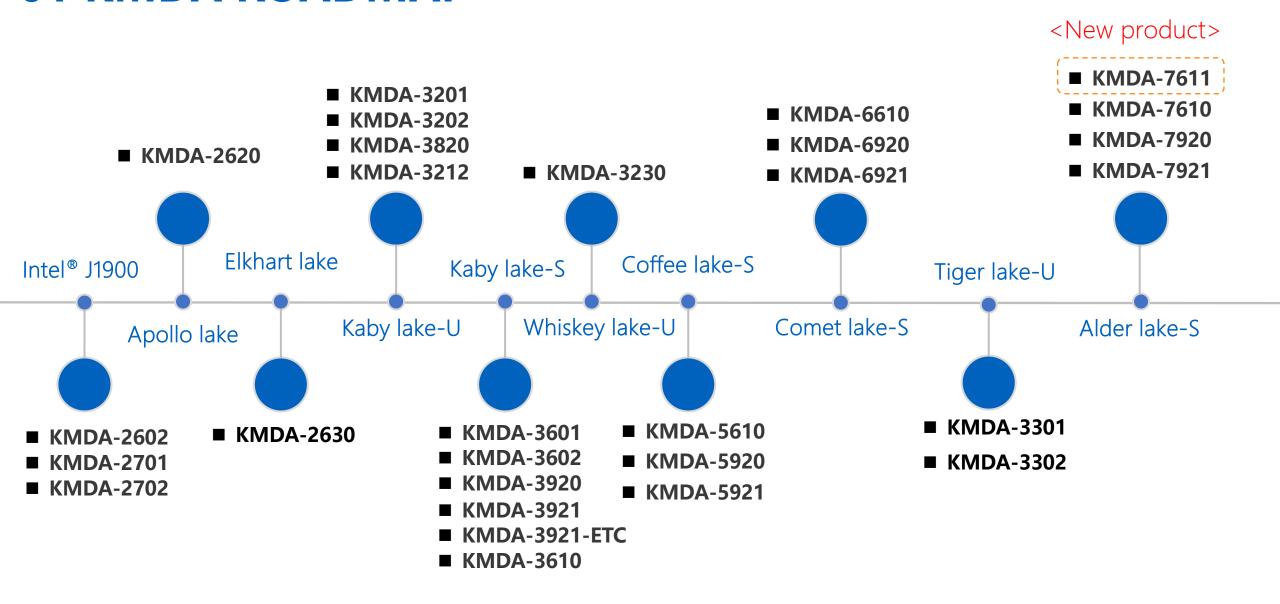
01	KMDA Roadi	ma	p
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- 02 KMDA-7611 Features
- 03 KMDA-7611 Ordering Info
- 04 KMDA-7611 Market Direction
- **05** KMDA-7611 Product Schedule

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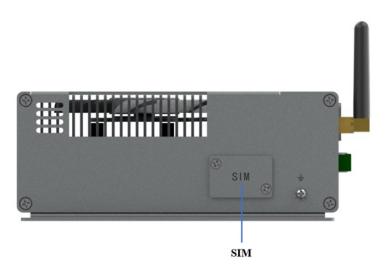


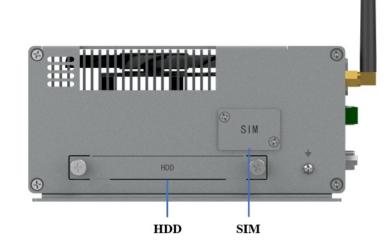
01 KMDA ROADMAP

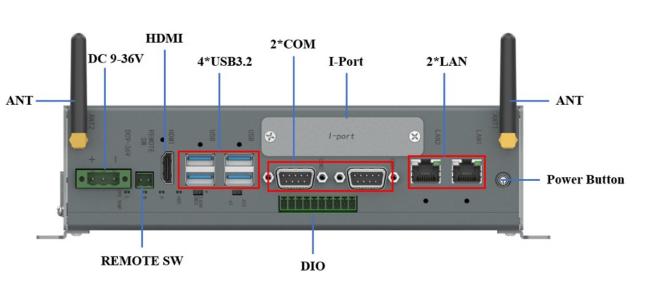


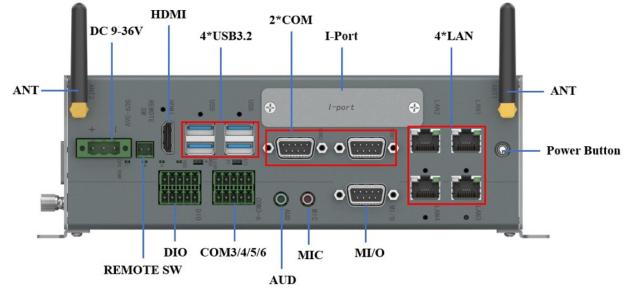
JHCTECH







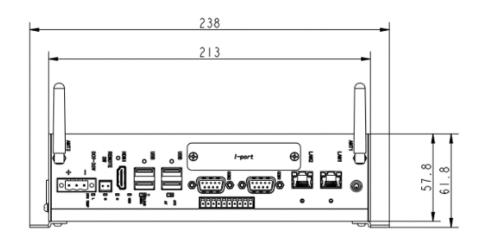


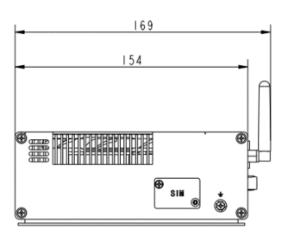


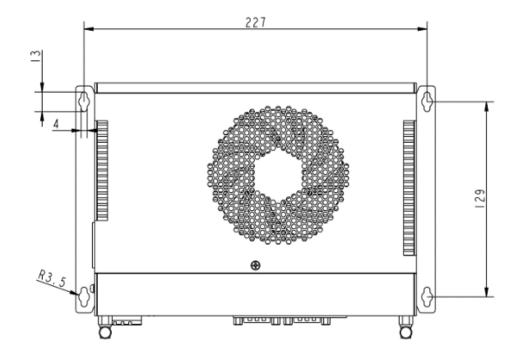
KMDA-7611-T001

KMDA-7611-S001

JIIC	<i> Е</i> СП	
	KMDA-7611-T001	KMDA-7611-S001
CPU	Intel® 12th Alder Lake-S/13th Raptor lake-S Core i9/i7/i5/i3/Pentiu	m/Celeron LGA1700 CPU, maximum power consumption of 65W
Chipset	Intel® H610 Chipset	
RAM	2*DDR5 4800 MHz SODIMM, maximum 96GB	
Display	1*HDMI, maximum resolution 4096*2160@60Hz	
LAN	1*Intel I210AT Gigabit LAN + 1*Intel I219LM Gigabit 10M/100M/1000Mbps adaptive, supports WOL	3*Intel I210AT Gigabit LAN + 1*Intel I219LM Gigabit LAN 10M/100M/1000Mbps adaptive, supports WOL
I/O Port	2*USB3.2 gen2.0 Type A, 10Gbps transfer speed; 2*USB3.2 gen1.0 Type A, 5Gbps transfer speed; 1*USB2.0 Type A (built-in); 2*RS232/422/485 via BIOS settings (DB9 male); 8bit isolated DIO	2*USB3.2 gen2.0 Type A, 10Gbps transfer speed; 2*USB3.2 gen1.0 Type A, 5Gbps transfer speed; 1*USB2.0 Type A (built-in); 2*RS232/422/485 via BIOS settings (DB9 male), 4*RS232(2*5 Pin Phoenix terminal) 8-bit isolated DIO (2*5pin Phoenix terminal); 1*Line out+1*Mic (3.5mm phone jack)
Storage	1*full-length mSATA, with SATA3.0 signal, supporting a maximum transfer speed of 6Gbps.	1*2.5" SATA3 hot-swappable hard drive tray, supports a maximum transfer speed of 6 Gbps 1*Full-length mSATA, with SATA3.0 signal, supports a maximum transfer speed of 6 Gbps
Expansion Port	2*full-length Mini-PCIe, with PCIeX1 and USB2.0 signal, Expan PCIeX1 and USB2.0 signal, supports 5G NR modules	ndable PCIe Signal Functional Module, 1*M.2 3052/3042 B-Key, with SIM slot, with
Power supply	DC IN 9-36V, with short circuit, overvoltage, and overcurrent protect	ction.



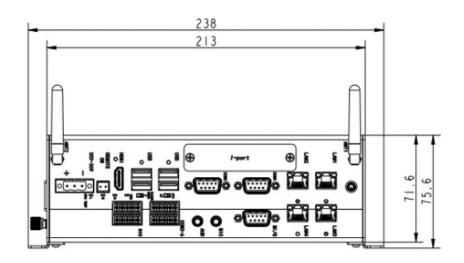


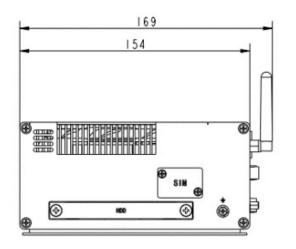


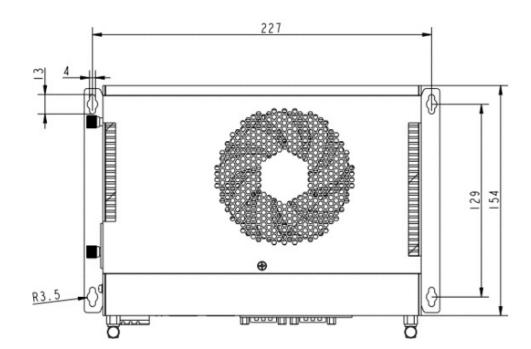


(W*D*H)

KMDA-7611-T001: 238*169*61.8 mm (Including installation accessories)



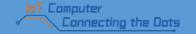






(W*D*H)

KMDA-7611-S001: 238*169*75.6 mm (Including installation accessories)



KMDA-7611

Product Features

- Supports highfrequency memory
- 2 High-speed Isolated DIO
- **Support multiple** CAN protocols
- **4** Multiple network functions
- **5** Rich IO interfaces
- 6 IO interface antifalling design

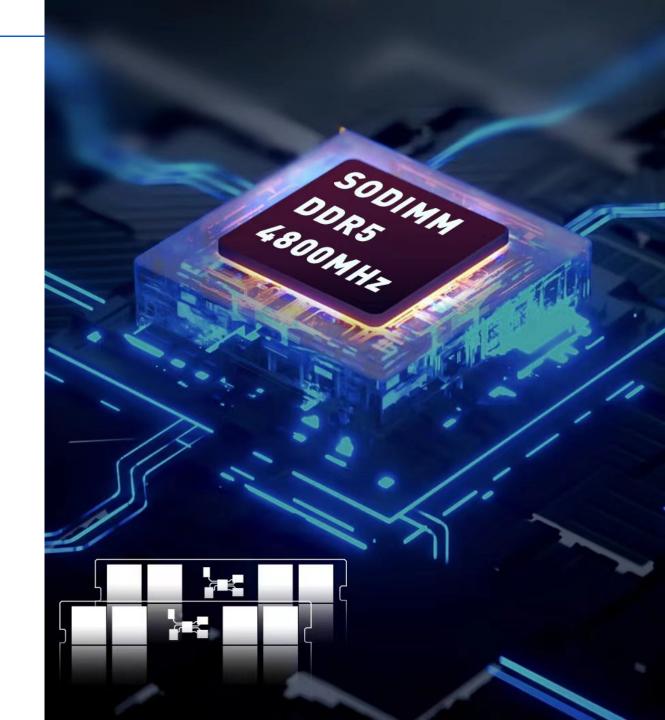
7 Installation diversity

JHCTECH



Supports highfrequency memory

- ➤ Dual channel memory DDR5 SODIMM, frequency 4800MHz
- ➤ Maximum memory capacity 96GB
- High compatibility supports most mainstream memory manufacturers on the market

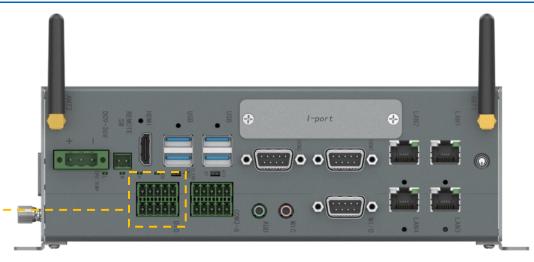


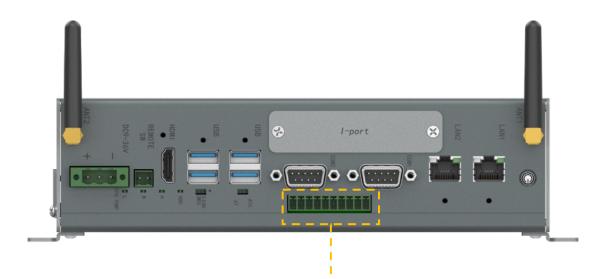




High-speed Isolated DIO

- 8-bit isolated DIO, 4-bit DI is 2.5KV photoelectric isolation, supports PNP and NPN mode selection; 4-bit DO is 2.5KV optical isolation Darlington output, with built-in matching resistor, which can be selected based on different drive currents.
- The pulse period reaches 2ms/pulse wave
- Capable of directly controlling brake devices such as signal lights, limit switches, and high-speed switch valves
- It can also operate the transfer device on the forklift, eliminating the need for a micro PLC on the forklift.









Support multiple CAN protocols

- Dual Mini PCIe interfaces, which can support up to 4 channels of CAN;
- Support CAN 2.0B, CAN OPEN, Socket CAN and other protocols, and is seamlessly connected to the forklift chassis;

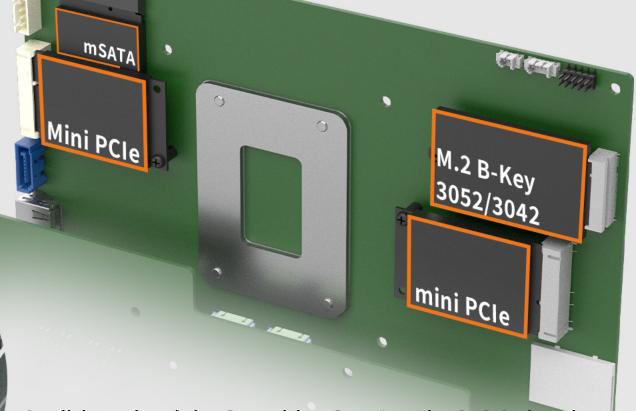












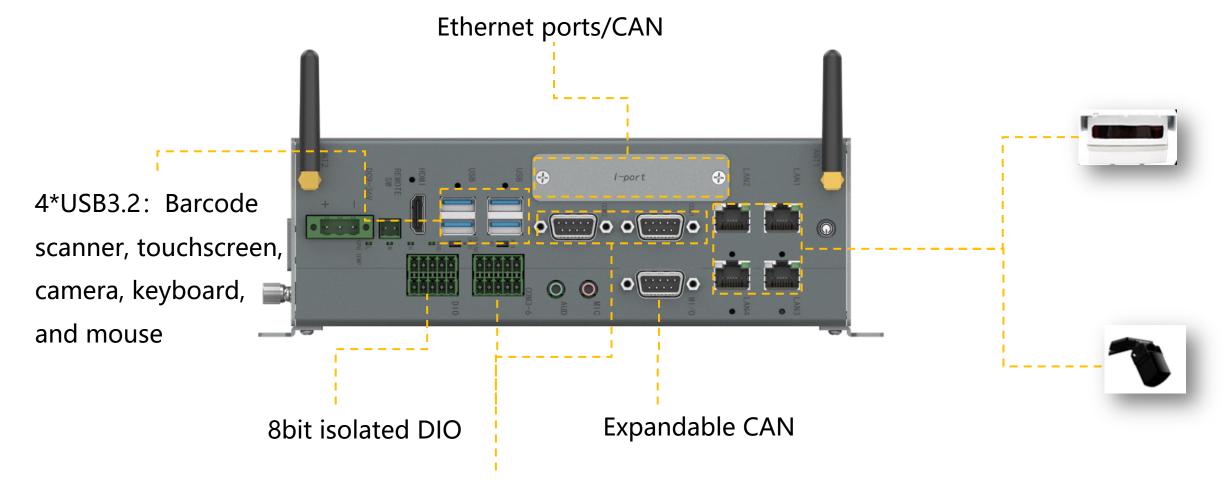
2Full-length Mini-PCIe, with PCIeX1 and USB2.0 signals, supporting WiFi/Bluetooth/Ethernet modules 1M.2 3052/3042 B-Key, with SIM card slot, with PCIeX1 and USB2.0 signals, supporting 5G NR modules 2 or 4 adaptive Gigabit Ethernet ports.





Rich IO interfaces

Expandable dual

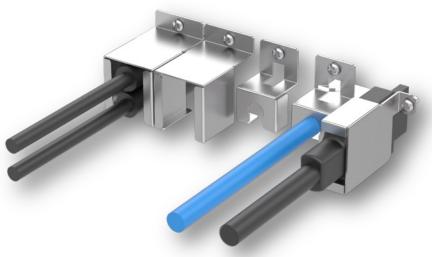


6*COM: MCU board, access

control, face recognition system



★ IO interface anti- falling design









Wall Mounting

Rail Mounting

Desktop Mounting



03> Ordering Info



Model	Description
KMDA-7611-T001	Embedded box computer, Intel® 12th Gen Alderlake-S LGA1700 CPU, H610 PCH, 2*DDR5 SODIMM, 2*LAN, 4*USB3.2, 1*USB2.0, 2*COM,1*HDMI, 8bit isolated DIO, 1*I-Port, 1*mSATA, 2*Mini PCIe, 1*M.2 B-Key, 1*SIM slot, DC 9-36V.
PA-120DC19	AC/DC power adapter, DC 19V/6.32A,120W



Model	Description			
	Embedded box computer, Intel® 12 Gen			
	Alderlake-S LGA1700 CPU, H610 PCH, 2*DDR5			
WADA 7611 6001	SODIMM, 4*LAN, 4*USB3.2, 1*USB2.0,			
KMDA-7611-S001	6*COM,1*HDMI, Line out & Mic, 8bit isolated			
	DIO, 1*I-Port, 1*M I/O, 1*mSATA, 1*2.5" SATA bay,			
	2*Mini PCle, 1*M.2 B-Key, 1*SIM slot, DC 9-36V.			
PA-120DC19	AC/DC power adapter, DC 19V/6.32A,120W			



04 Market Direction







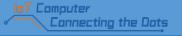
Machine Vision

- Logistics Vision Sorting
- Photovoltaic Vision Inspection
- Intelligent Quality Inspection Machine
- Automotive Manufacturing Inspection



Industrial Manufacturing

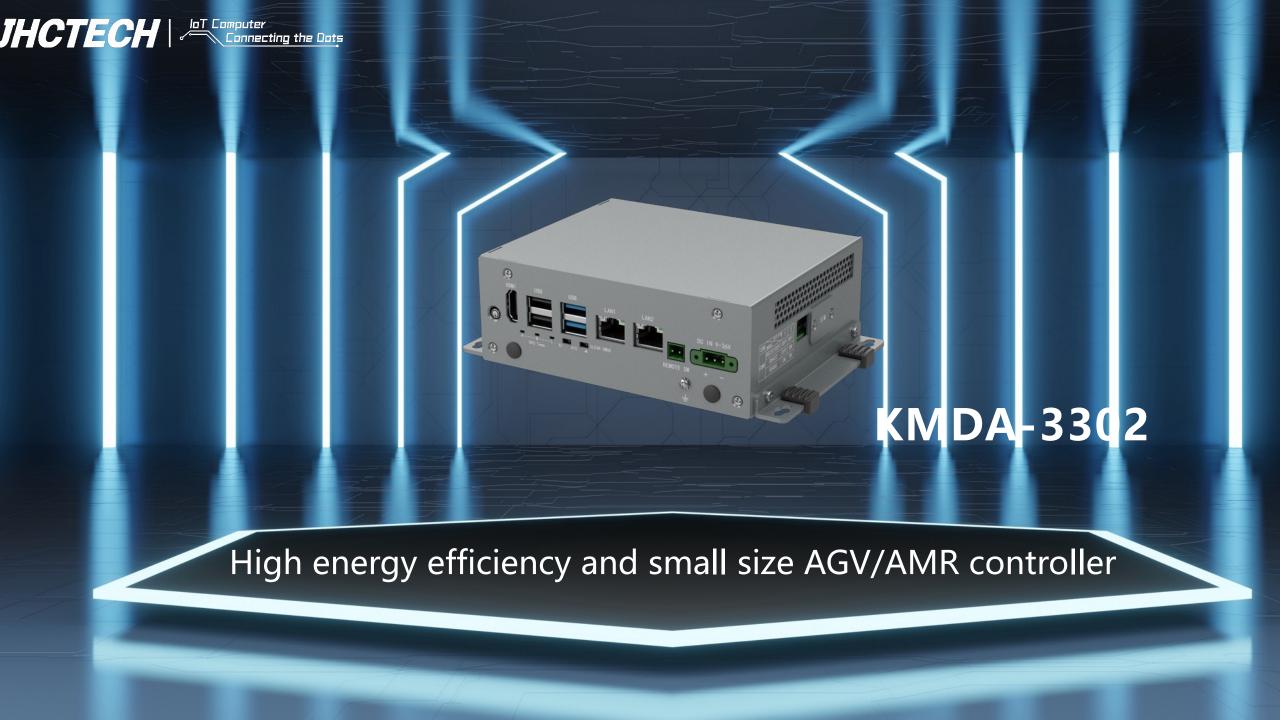
- Industrial Robotic Arm Laser Cutting Machine/Engraving Machine/CNC Machining Center
- Dispensing Machine/3D Printer
- Distributed Control System (DCS)



05> Product Schedule

Small Batch 2024 January









Product Specifications













KMDA-3302

- Intel® Tiger lake U Soc CPU
- SGCC box design, 4-wire speed fan cooling
- 1*DDR4 3200MHz SODIMM, up to 32GB
- 1*HDMI 4K display output
- 2*I210AT Gigabit network port, 2*USB3.2, 2*USB2.0
- 8bit DIO, 1*RS232/422/485, 1*RS232
- 1*M.2 2230 E-Key, support Wifi/BT function extension
- A 1*M.2 B-Key with a SIM card slot supports 5G NR wireless modules
- 1*Mini PCIe supports functions such as CAN, and can be replaced with mSATA
- 1*Full Size mSATA for storage
- DC 9~36V wide voltage power supply, with reverse connection, overcurrent, overvoltage protection
- Standard horizontal tabletop mount, single DIN-RAIL rail mount optional







- Rockchip RK3588 CPU, 4-core Cortex-A76 and 4-core Cortex-A55, 2.4GHz main frequency
- Onboard 4GB memory
- GPU only 1*HDMI
- 4*LAN, 2*USB3.0, 2*USB2.0, 2*COM, 1*8bit DIO, 2* isolation CAN2.0, 1*Audio out
- 1*Full size Mini PCIe with SIM card slot and 4G LTE support
- Optional onboard Gigabit WiFi6/ Bluetooth 5.0
- Onboard 32GB eMMC and 1*M.2 2242 M-Key dual storage
- DC 9-36V wide voltage power supply, with reverse connection, overcurrent, overvoltage protection
- Aluminum rectangular profile housing, no fan cooling design
- Standard horizontal tabletop mount with DIN-RAIL rail and wall mount options

















Market Direction



AGV/AMR



Logistics visual inspection



Service robot

Introduction of JHCTECH's New Products



Large-Sized Expandable Industrial Panel PC --- ALAD-K2350T(P)

Reese Li, Customer Solution Manager, Shenzhen Office



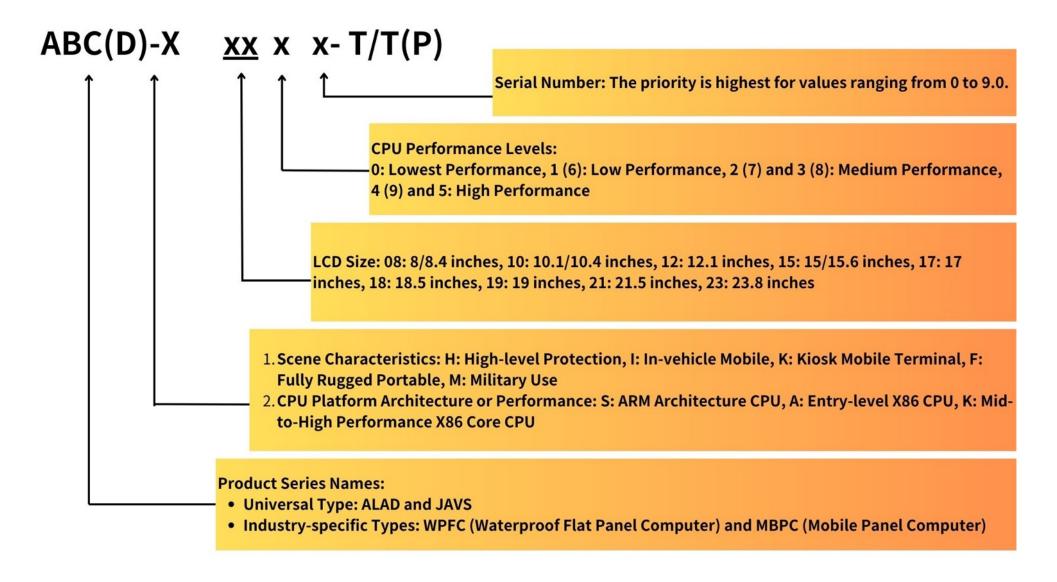
JHCTECH



- 01 ALAD Roadmap
- 02 ALAD-K2350T(P) Specifications
- 03 ALAD-K2350T(P) Features
- 04 ALAD-K2350T(P) Ordering Info
- **O5** ALAD Series Upgrade
- 06 ALAD-K2350T(P) Market Direction
- 07 ALAD-K2350T(P) Product Schedule

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Naming Rules for the ALAD Series Products





<New product>

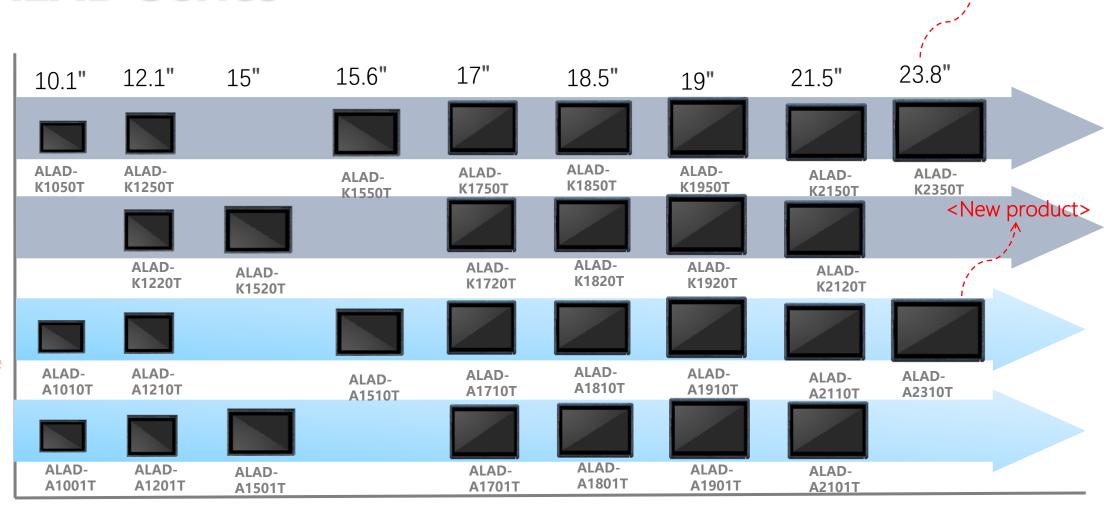
ALAD Series ROADMAP

Intel X86 Tiger lake U

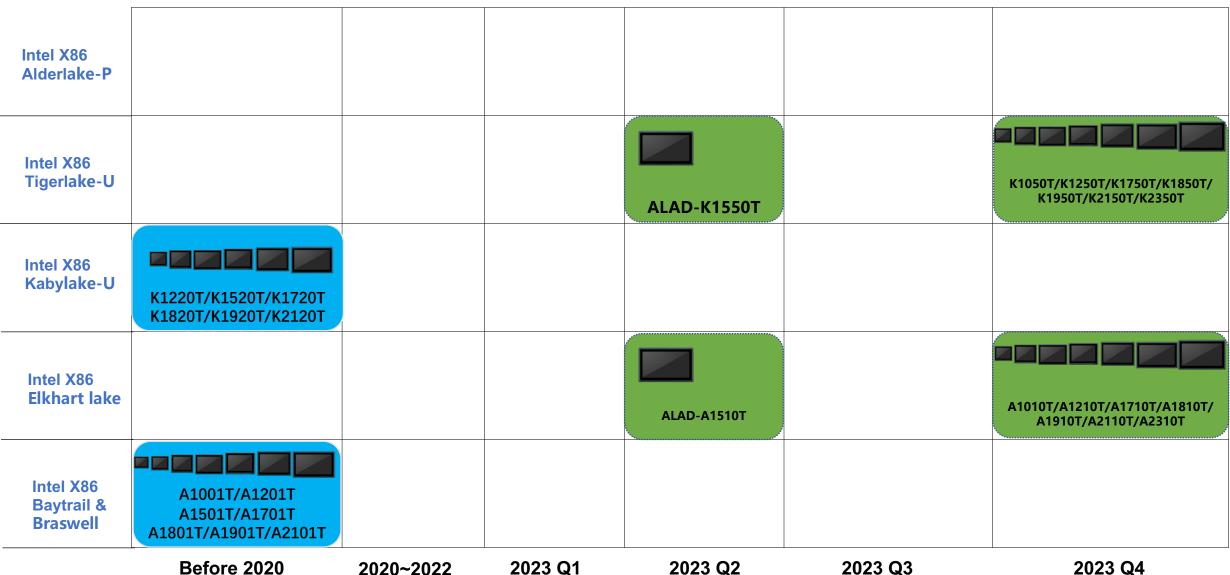
Intel X86 Skylake-U Intel X86 Kabylake-U

Intel X86 Elkhart lake

Intel X86 Baytrail & Braswell



ALAD Series ROADMAP



Planning

Developing

MP

2023 Q4



ALAD Series ROADMAP

Panel PC Model	K1050T/T(P)	K1250T/T(P)	K1550T(P)	K1750T/T(P)	K1850T(P)	K1950T/T(P)	K2150T(P)	K2350T(P)
CPU				Tiger lake-U				
LCD Screen Size	16:10 Widescreen	4:3 Standard Screen	16:9 Mirror Widescreen	4:3 Standard Screen	16:9 Widescreen	4:3 Standard Screen	16:9 Widescreen	16:9 Mirror Widescreen
Expansion	N/A	N/A	1 PCle x4 or PCl Expansion Slot	N/A	1 PCle x4 or PCl Expansion Slot	1 PCIe x4 or PCI Expansion Slot	1 PCle x4 or PCl Expansion Slot	1 PCle x4 or PCl Expansion Slot
Panel PC Model	A1010T/T(P)	A1210T/T(P)	A1510T(P)	A1710T/T(P)	A1810T(P)	A1910T/T(P)	A2110T(P)	A2310T(P)
CPU	Elkhart lake							
Expansion	N/A							



02 ALAD-K2350T(P) Product Specifications









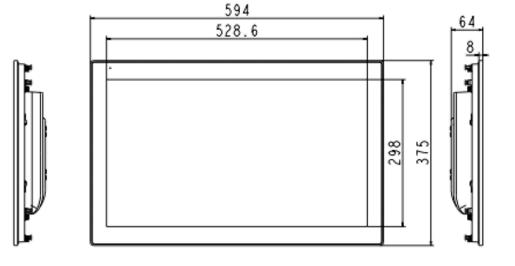
CPU+PCH	Intel® Tigerlake U Celeron/Core I3/I5/I7 CPU				
RAM	RAM 1*DDR4 3200MHz SODIMM, maximum Support: 32GB				
LAN	2*Intel I226V				
Display 23.8-inch Full HD TFT LCD, 1*HDMI for extend display					
USB	4*USB3.2, 1*USB2.0 (Built-in)				
Serial port	2*RS232/422/485+2*RS232				
Expansion Port	1*Mini PCIe(PCIe&USB signal), Supports functional modules with PCIe or USB signals; 1*M.2 B-Key Type 3042/3052 with SIM card slot, supports 4G LTE/5G NR; Optional 1 PCIeX4 slot (X4 signal) or 1 32-bit PCI slot expansion				
Storage	Storage 1*2.5" SATA HDD disk, supports SATA3.0 6Gbps HDD/SSD; 1*mSATA				
Power Supply	DC-IN 9~36V wide voltage input, overvoltage and overcurrent reverse connection protection				

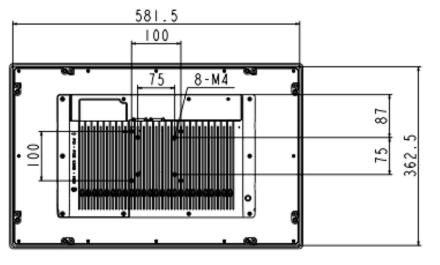


02 ALAD-K2350T(P) Dimensions

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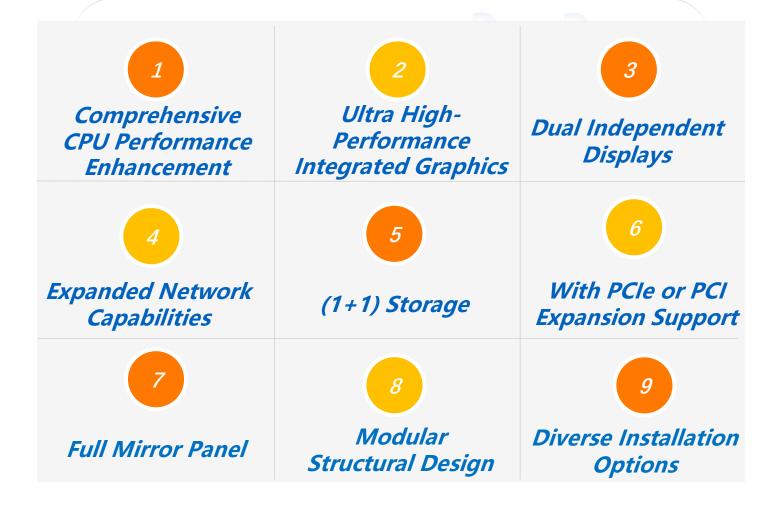


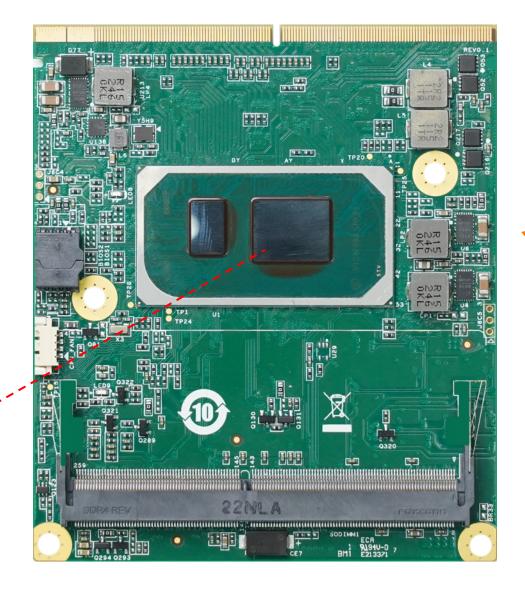






03- Product Highlights



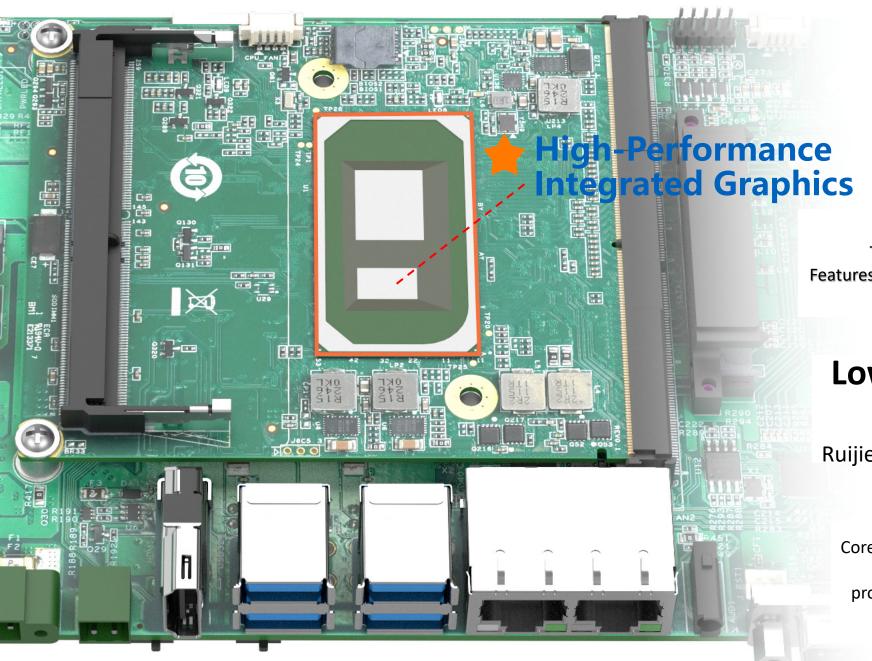




11th Gen Intel Processor

Tiger lake-U ULT SOC System-on-Chip (SOC), ultra-low power consumption, and fanless cooling.







Supporting Intel Deep Learning Boost
Theoretical inference capability of up to 8 TOPS
Features Intel GNA (High-Speed Neural Accelerator 2.0)
Al voice neural noise reduction functionality

Low-power Neural Network Acceleration

Ruijie Xe Integrated Graphics (INTEL DX1 GPU)

Core i3/Pentium/Celeron integrates the UHD Graphics, while Core i5/i7 integrates the Ruijie Xe Graphics, providing computing power of 3-4 TOPS, comparable to the performance of NV 1030/1050.



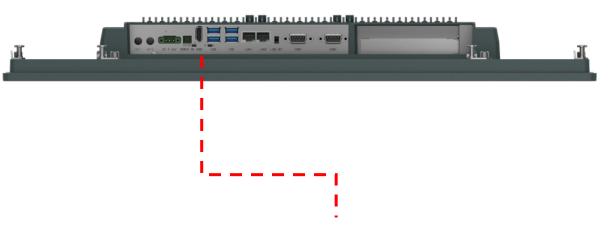


Dual Independent Display

23.8 inches TFT LCD Display

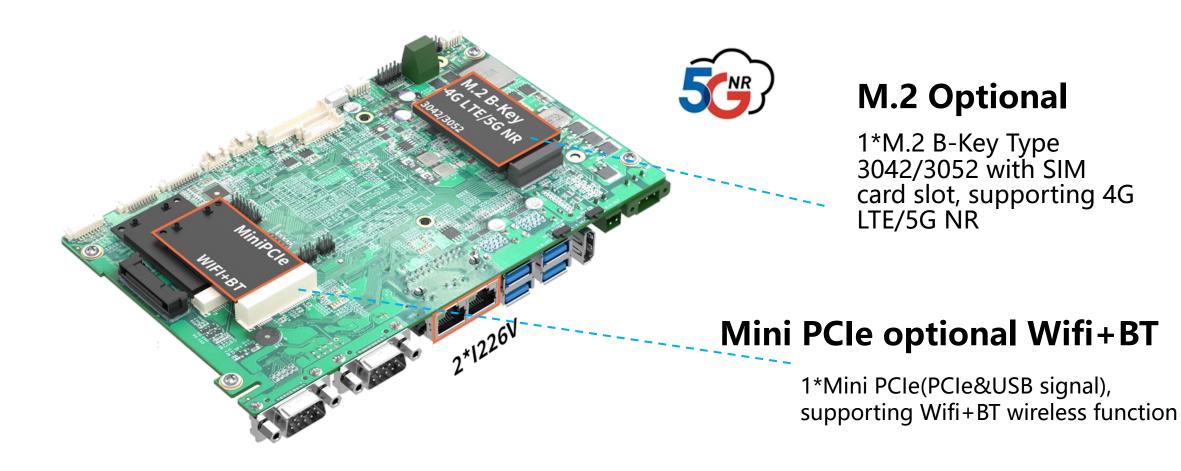


Second display is HDMI



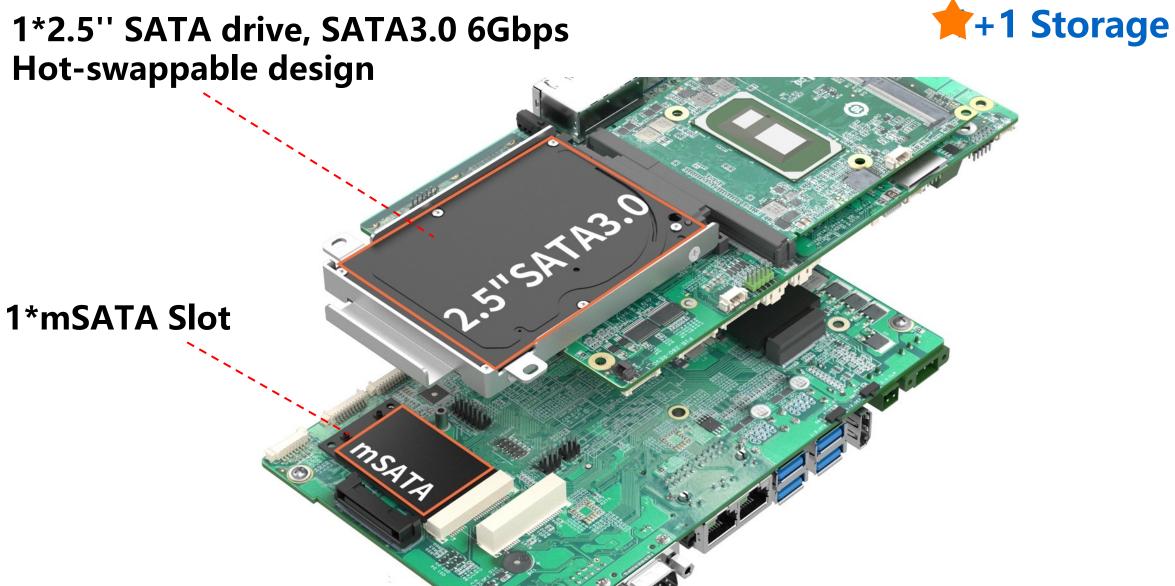
1*HDMI(4K), maximum resolution 4096*2304@60Hz







1*2.5" SATA drive, SATA3.0 6Gbps







Optional PCIe or PCI Expansion

- ➤ ALAD-K2350T(P) can be expanded through sub-cards ECX-168 or ECI-169, using JHCTECH standard EI/O hybrid interface, achieving expansion of 1 PCIe x4 or 1 32-bit PCI.
- ➤ The PCIe x4 (gen4 bandwidth) slot comes with an auxiliary power port, supporting high-power devices such as POE+ network cards.



Optional PCIeX4 (gen4 X4 signal) or PCI expansion or COM3&4

Board Name	Expansion Interface
ECX-168 Expansion Sub-Card	1*PCIeX4 slot(X4 signal) (It does not have COM3 & 4 in use.)
ECI-169 Expansion Sub-Card	1*32-bit PCI slot (It does not have COM3 & 4 in use)



- High-ratio touch panel, full mirror design ID.
- Touch LCD fully integrated for an immersive experience



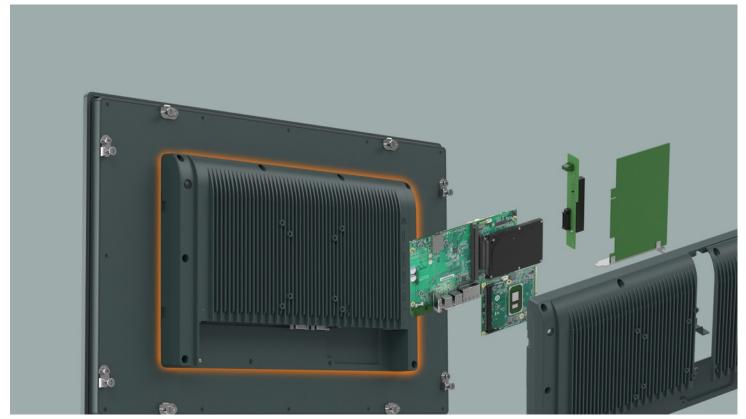




- ➤ A die-cast mold forms a three-in-one main structure: front panel + main rear cover + expandable slot cover.
- Modular built-in components include TP & LCD module, MXM motherboard, PIB carrier board, HDD/SSD bracket, and PCIe/PCI expansion sub-cards.

Fanless cooling design + mechanical design + ergonomic design, featuring high practicality, assembly, and maintenance.







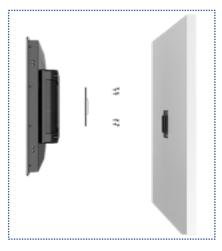


Diverse Installation Options

Supports panel installation, cabinet shelf installation, and VESA installation (desktop upright, wall-mounted, and cantilever)









Panel Installation

Desktop Installation

Wall Mounted

Cantilever Installation





ALAD-K2350T(P) Ordering Info



04-Ordering Info

Model	СРИ	Touchscreen	Specification Description
ALAD-K2350T(P)/ S001	Intel® Core I3-1115G4	-1115G4	Industrial Panel PC, 23.8" TFT LCD,
ALAD-K2350T(P)/ S002	Intel® Core I5-1135G7 Projected Capacitive Touchscreen		4*COM, 4*USB3.2, 1*USB2.0, 2*LAN, 1*HDMI,1*Mini PCIe, 1*M.2 B-Key, 1*Line out, 1*2.5" SATA drive bay, 1*mSATA, 2*3W built-in speakers, DC
ALAD-K2350T(P)/ S003			
ALAD-K2350T(P)/ S004	Intel® Celeron 6305E		9~36V power supply.
ECX-168 Expansion Daughter Card	1*PCIeX4 slot(X4 signal) (It does not have COM3 & 4 in use)		
ECI-169 Expansion Daughter Card	1*32-bit PCI slot (It does not have COM3 & 4 in use)		
PA-60DC12	AC/DC power adapter, DC12V@5A ,60W		
PA-120DC19	AC/DC power adapter, DC19V@6.32A ,120W (When using a POE network card as an expansion)		



05-ALAD Series Upgrade

Platform Upgrade: Adopts the "Core Module + Carrier Board"

> Different architectures and platform CPUs are used to meet various performance requirements.

> This creates a series of product lines, making it extremely convenient for customers to iterate, upgrade,

and maintain.

Core Module	MXM-I914	MXM-I719	
CPU	Intel® Tigerlake U Celeron/Core I3/I5/I7 CPU	Intel® Elkhart lake: Celeron J6412 或 Celeron N6210	
Chipset	Intel® CPU SoC MCP		
RAM	1*DDR4 3200MHz SODIMM, maximum support 32GB		
Dimension	95*82mm		
Standard Specification	JHC MXMe		





06-ALAD Series Market Direction

1. Machine Vision, Visual Guidance, and Measurement



Automatic Solar Cell String Welding Machine with Positioning and Detection System

5. Environmental Data Acquisition Instrument



Detection System

2, Self-Service Terminals



Bank Self-Service Terminal

6. Machine Tool Motion Control and Human-Machine Interface (HMI)



Integrated Display and Control for Injection Molding Machine Motion Control for Vulcanizing Machine Control for High-Temperature Furnace

3. Logistics and Warehousing"



AGV Car, Material Management

7. Smart Medical



Smart medicine cabinet system

Nurse mobile workstation
.....

4. Factory Information Automation MES



Application of MES System in Automotive Company Including Complete Vehicle and Engine Assembly, etc.



Application of MES System in Factory Including Automation Production Lines, SMT Mounting, etc



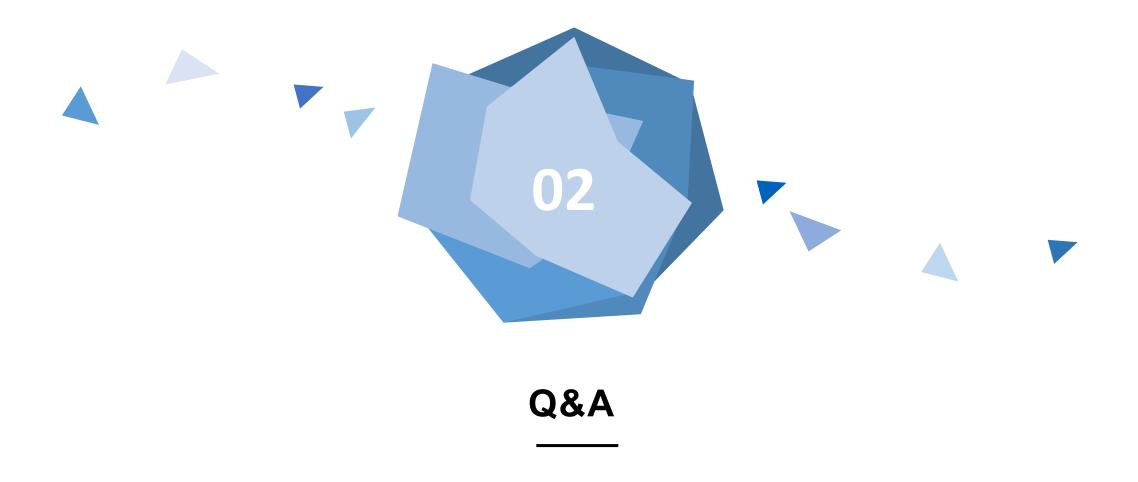
07 ALAD-K2350T(P) Product Schedule

Sample Testing Period

December 2023

Small Batch Production Period

January 2024



Q1:What are the functions of I-port and MIO for KMDA-7611?

A1:MIO can expand dual CAN with 1*DB9 port.I-port can expand 2*LAN or dual CAN with 1*DB9 port .

Stay in Touch



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