



Features :

- Supports Nvidia Jetson AGX Orin series core boards, with a computing power of up to 275TOPS
- Standard configuration includes 5GbE and 110GbE
- 4USB 5Gbps Type-A, 4USB 2.0 Type-A, 1*USB 5Gbps Type-C
- 1 HDMI high-definition display interface
- Optional 8 GMSL2 camera interfaces
- Provides 8bit GPIO, 2CAN FD, 1SPI, 1*I2C interfaces
- Supports WiFi, BT, 4G/5G, and other wireless and mobile expansions
- Supports optional concierge function module
- Supports desktop, wall-mounted, DIN rail mounting
- Fan-assisted active cooling
- 9~36V DC wide voltage power supply



Remote
Control



States
Monitoring



Remote
Management



Safety Control

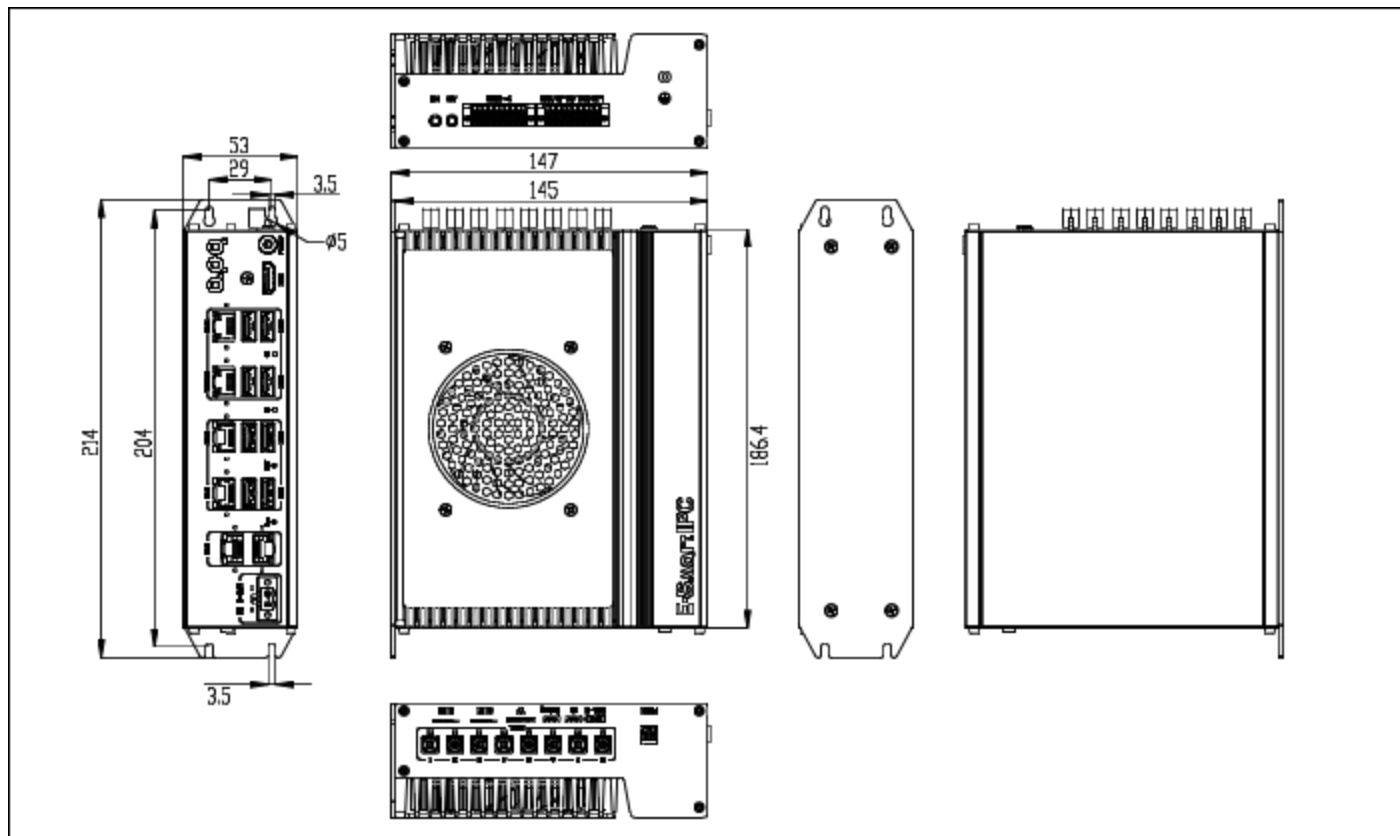
Product Specification

Model		AK41xx	
Core Modules		Jetson AGX Orin 32GB, 200 TOPS	Jetson AGX Orin 64GB, 275 TOPS
Ethernet	Controller	1 * 10GbE, 10/100/1000/10000 Mbps (Native interface) 1 * Intel® i210-AT, 10/100/1000 Mbps 1 * Intel® i210-AT, 10/100/1000 Mbps (Four shared interfaces through the switch)	
Storage	M.2	1 * M.2 Key-M (PCIe x4 Gen 3, NVMe SSD, 2280)	
	TF	1 * TF Card Slot	
Expansion Slots	M.2	1 * M.2 Key-B (USB 5Gbps, with 1 * SIM Card Slot, 3052) 1 * M.2 Key-E (TTL, 2230)	
	Mini PCIe	1 * Mini PCIe (USB 2.0, with 1 * SIM Card Slot)	
Front I/O	Ethernet	6 * RJ45	
	USB	4 * USB 5Gbps (Type-A) 4 * USB2.0 (Type-A)	
	Display	1 * HDMI: Resolution up to 4096x2160 @ 30Hz	
	LED	1 * RUN LED 1 * ERR LED 1 * Power status LED	
	Button	1 * Power On/Off Button 1 * Recovery Button 1 * Reset Button	
Side I/O	USB	1 * USB 5Gbps (Type-C) 1 * USB2.0 (Micro USB, Debug) 1 * USB2.0 (Micro USB, Download)	
	PSON	1 * PSON (Pluggable Terminal Blocks, P=3.5mm)	
	GMSL	8 * GMSL2 (FAKRA)	
	TF	1 * TF Card Slot	
	SIM	2 * SIM Card Slots	
	Audio	2 * 3.5mm Jack (MIC + Line_Out)	
	Serial	4 * RS232/485 (COM1/2/3/4, Pluggable Terminal Blocks, P=2.54mm)	

	CAN	2 * CAN FD (Pluggable Terminal Blocks, P=2.54mm)
	GPIO	8bits GPIO (Pluggable Terminal Blocks, P=2.54mm)

	SPI	1 * SPI (Pluggable Terminal Blocks, P=2.54mm)
	PC	1 * PC (Pluggable Terminal Blocks, P=2.54mm)
Internal I/O	FPANEL	1 * FPANEL (Header)
	FAN	1 * SYS FAN (wafer)
	Speaker	1 * Speaker (5-W/8-Ω Loads, wafer)
Power Supply	Type	AT/ATX
	Power Input Voltage	9 ~ 36VDC
	Connector	1 * Pluggable Terminal Blocks, 2Pin, P=5.0/5.08mm
	RTC Battery	CR2032 Coin Cell
OS Support	Linux	Ubuntu
Watchdog	Output	System Reset
Mechanical	Enclosure Material	Radiator/Box: Aluminum alloy, Top/Bottom Cover: SGCC
	Dimensions	53mm(L) * 145mm(W) * 186.4mm(H)
	Mounting	Wall mounted, DIN, Desktop
Environment	Heat Dissipation System	PWMAir Cooling
	Operating Temperature	-20~60°C (Industrial SSD)
	Storage Temperature	-40~80°C (Industrial SSD)
	Relative Humidity	5 to 90% RH (non-condensing)
	Vibration During Operation	With Industrial SSD: IEC 60068-2-64 (3Grms@5~500Hz, random, 1hr/axis)
	Shock During Operation	With Industrial SSD: IEC 60068-2-27 (30G, half sine, 11ms)

Product Dimensions



Product I/O

