



Features:

- NVIDIA® Jetson AGX Orin series, up to 275 TOPS
- 5× GbE, 1× 10GbE RJ45
- 3*USB 10Gbps , 5*USB 5Gbps Type-A
- 4*RS232/RS485, 2*CAN FD, 8*DIO
- Support for Wi-Fi、BT、4G/5G、network expansion
- Active cooling system
- 12~28V DC



Remote Management



Condition Monitoring



Remote Operation And Maintenance



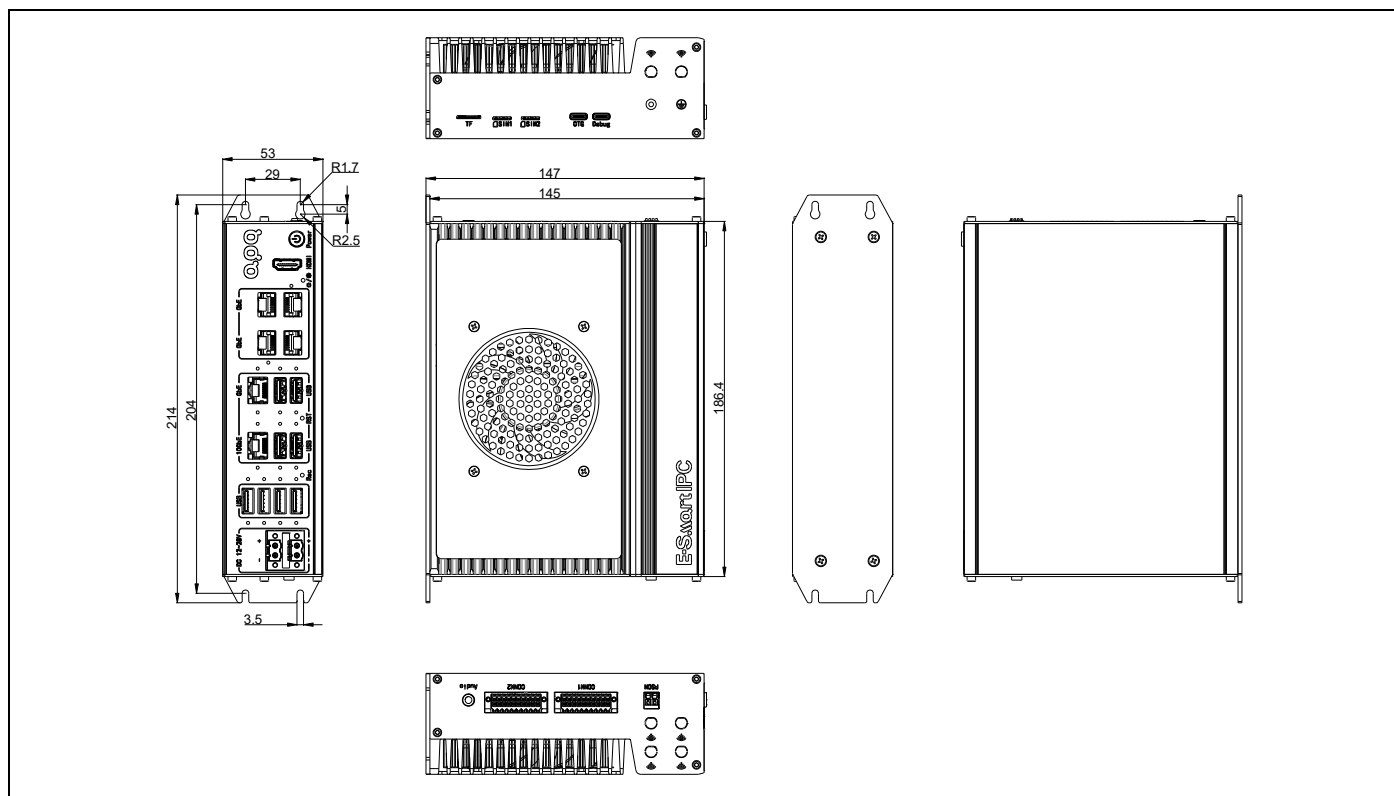
Safety Control

Product Specification

Model		AK4100A6	
Core Modules		Jetson AGX Orin 32GB, 200 TOPS	Jetson AGX Orin 64GB, 275 TOPS
Ethernet	Wired Module	1 * Marvell® AQR113C,10/100/1000/2500/5000/10000 Mbps	
		1 * Marvell® 88E1512,10/100/1000 Mbps	
		4 * Intel® i210-AT,10/100/1000 Mbps	
Storage	M.2	1 * M.2 Key-M Slot (NVMe SSD, 2280)	
	TF	1 * TF Card Slot	
Expansion Slots	M.2	1 * M.2 Key-B Slot (USB 5Gbps + USB 2.0, 3052, with 1 * Nano SIM Card Slot)	
	Mini PCIe	1 * Mini PCIe Slot (PCIe x1 + USB 2.0, with 1 * Nano SIM Card Slot)	
Front I/O	Ethernet	1 * 10GbE (RJ45)	
		5 * GbE (RJ45)	
	USB	3 * USB 10Gbps (Type-A)	
		5 * USB 5Gbps (Type-A)	
	Display	1 * HDMI: Resolution up to 4096*2304@30Hz (Type-A)	
	LED	1 * System Status LED	
	Button	1 * Power Button + Power LED	
		1 * System Reset button	
		1 * System Recovery button	
Side I/O	Power Input	1 * Power Input (4P, P=5.00/5.08, Terminal Block)	
	OTG	1 * USB 2.0 (Type-C, Flashing Port)	
	Debug	1 * USB 2.0 (Type-C, Debug Port)	
	PSON	1 * PSON (Pluggable Terminal Blocks)	
	TF	1 * TF Card Slot	
	SIM	2 * Nano SIM Card Slots	
	Audio	1 * 3.5mm Jack (MIC + Line Out)	
	Serial	4 * RS232/485 (Jumper Switch, Terminal Blocks)	
	CAN	2 * CAN FD (Terminal Blocks)	
	GPIO	4 * DI (Isolated Digital, Range 3.3~24VDC, NPN&PNP, Terminal Block)	
		4 * DO (Isolated Digital, Range 3.3~48VDC, Max 0.5A per, Terminal Block)	
	Sync	1 * SYNC IN (Isolated Digital, Terminal Block)	
		1 * SYNC OUT (Isolated Digital, Terminal Block)	
		1 * PPS SYNC (Isolated Digital, Terminal Block)	
Internal I/O	Front Panel	1 * Front Panel (Power + Reset + Recovery, wafer)	
	FAN	1 * System Fan (wafer)	
	GPIO	4bit DIO (OS Configurable DI/DO and H/L, wafer)	
	Serial	2 * RS232/485 (Jumper Switch, wafer)	
	IIC	1 * TTL (wafer)	
	SPI	1 * IIC (wafer)	
	SPI	1 * SPI (wafer)	
Power Supply	Speaker	1 * Amplifier, 5-W (per channel) into a 8-Ω Loads (wafer)	
	Type	AT/ATX	
	Power Input Voltage	12 ~ 28V DC	
	Connector	1 * Power Input Connector (4P, P=5.08mm, Terminal Block)	
OS Support	RTC Battery	CR2032 Coin Cell	
	Linux	Jetpack6.2 (Ubuntu22.04)	
Mechanical	Enclosure Material	Aluminum alloy	

Environment	Dimensions	53mm(L) * 145mm(W) * 186.4mm(H) (Mounting Hardware Not Included)
	Mounting	Ear Mounting, DIN Rail Mounting (Shipping Option)
	Heat Dissipation System	Active Fan Cooling
	Operating Temperature	-20~50°C with 0.7 m/s airflow
	Storage Temperature	-40~80°C
	Relative Humidity	10 to 95% RH (non-condensing)
	Vibration During Operation	3Grms@5~500Hz, random, 1hr/axis
	Shock During Operation	15G, half sine, 11ms, ±X/Y/Z, 3 shocks/axis

Product Size



I/O

