

HardEdge-Mars

AI Edge Embedded System



Preliminary

Features

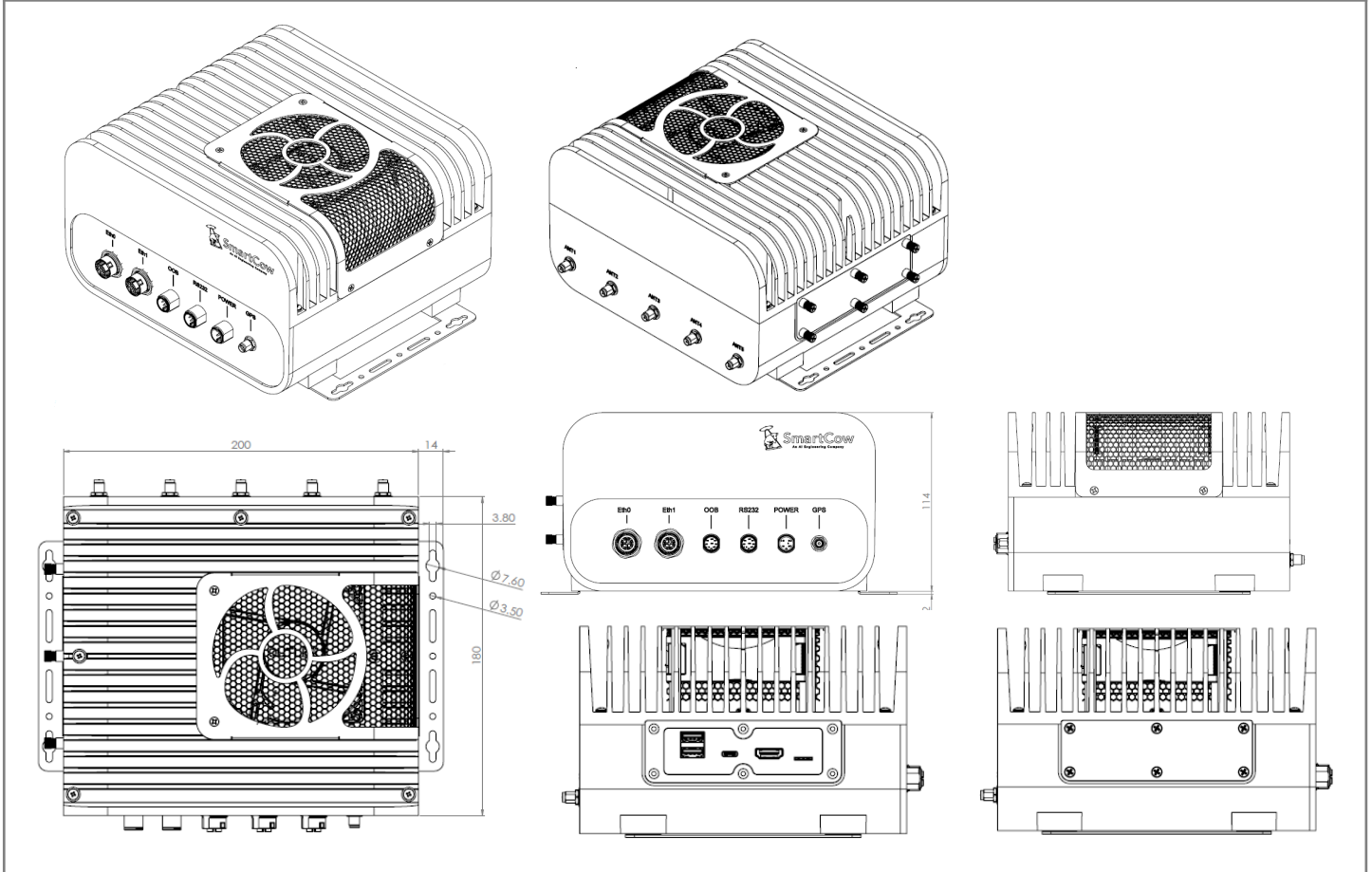
- NVIDIA® Jetson AGX Orin™ modules support
- Support 1x 10Gbe Ethernet Network Port
- Rich Expansion Slots for WWAN and Storage
- Support DIN-rail/Wall Mount Mounting
- Support 24/7 Out-Of-Band(OOB) Management

Specifications

NVIDIA® Jetson AGX Orin™	AGX Orin™ 32GB	CPU	8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
		GPU	1792-core NVIDIA Ampere GPU with 56 Tensor Cores
		Memory	32 GB 256-bit LPDDR5 204.8 GB/s
		Storage	64 GB eMMC 5.1
	AGX Orin™ 64GB	CPU	12-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3
		GPU	2048-core NVIDIA Ampere GPU with 64 Tensor Cores
		Memory	64 GB 256-bit LPDDR5 204.8 GB/s
		Storage	64 GB eMMC 5.1
General	Storage	1TB NVMe SSD	
	BSP	Jetpack 5.0.2	
	Power Input	24V DC input with M12 Power Connector	
	Certification	CE, FCC	
Physical I/O	Display	1x HDMI	
	Ethernet	1x GbE port (OOB function only) 1x 10 GbE port 1x 2.5 GbE port	
	GPS	1x GPS	
	USB	1x USB3.2 Gen1 Type A 1x USB3.0 Type C	
	SIM Card	1x Nano SIM Slot	
	Antenna	4x Antennas for 5G Module 2x Antennas for WIFI Module	
	RS232	1x RS232(M12 connector)	
Internal Connector	USB	1x USB3.0 Type C (OTG only)	
	2-pin header	1x RTC with CR2032 Battery	
	4-pin header	1x Fan	
	4-pin header	1x Sensor Board	
	8-pin header	1x Reset/Recovery	
	Expansion slots	2x M.2 2280 Key M (1 Slot with 1TB NVMe SSD) 1x M.2 2230 Key E 1x M.2 3052 Key B	

Environment	Operating Temp	-20°C ~+60°C
	Storage Temp	-40°C ~+85°C
	Storage Humidity	95% @ 40 °C (non-condensing)
Mechanical	Dimension	200 x 180 x 114 mm (L x W x H)
	Weight	5kg

Mechanical



Ordering Information

Part Number	Description
HAEGM-AR32/AR64	32G/64G AGX Orin w/fan, M.2 1TB NVMe SSD, 200*180*114mm, 24V DC, 100W Power adapter, IP65, -20~60°C

Packing List

Item	Description	Quantity
HAEGM-AR32/AR64	AI Embedded System with NVIDIA® Jetson Module	1
Power Adapter	DC 100W 24V	1

Accessories List

Part number	Description
1Y0701800200LI	US Power Cord
1Y0701800100LI	EU Power Cord
61-ULT00001RQU	M.2 B-key 3052 5G module: QUECTEL RM502Q-AE
61-UWF000000IT	M.2 E-key 2230 WIFI module: Intel® Wireless-AC 9260, Wi-Fi 5 (802.11ac), BT5.1