

# NewPre2300

## Medium-sized Smart Controller



### Key Features

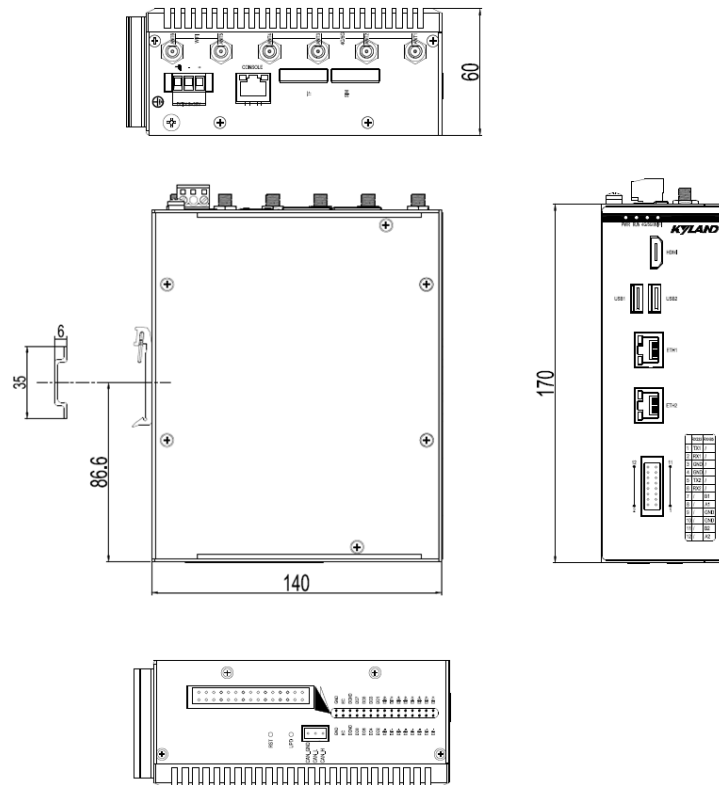
- Using ARM Dual-core Cortex-A72 + Quad-core Cortex-A53 Processor, 4GB DDR3 and 32GB eMMC
- Fanless design, supports -20~60 °C wide operating temperature
- Meets EMC level 3 and IP40 protection level
- Flexible configuration, optional 5G/WiFi can be expanded through internal interfaces ( or AI accelerator card ), local IO and CAN optional
- Pre-installed MaVIEW LinuxRTE , supports real-time control and Modbus TCP
- Modbus RTU (Master) , Custom TCP, Custom UDP, EtherCAT (Master)
- Profinet (Master) , OPC UA, MQTT (Client) Common industrial communication protocols

### Product Specifications

		NewPre2300
Main system	CPU	RK3399 , 2 × Cofix-A72+ 4 × Cofix-A53 Big and small core CPU Structure, frequency up to 1.8GHz
	Memory	4GB LPDDR3
	Storage	32GB eMMC
	Graphics Processor	4 Core ARM Mail-T860 GPU
	Video Processor	4K support VP9 and 4K 10bits H265/H264 Video Decoding
	AI Accelerator card (optional)	RK1808, 3 TOPs for INT8 / 300 GOPs for INT16 / 100 GFLOPs for FP16( Occupies miniPCIe Slots)
Interface	Network Interface	2 × 10/100/1000Base-T(X)
	USB	1 × USB2.0 , 1 × USB3.0
	Serial Port	2 × RS485 , 2 × RS232 , with isolation
	IO (optional)	8 x DI (NPN/PNP, Isolation voltage 3750Vrms) , 8 x DO( Transistor output, maximum current per channel 600mA , isolation voltage 5000Vrms)
	CAN (optional)	1 × CAN
	Extensions	1 × miniPCIe , 1 × M.2
Ower Supply	Input voltage	9~36V
	Power	<20W
	Overload protection	Support
	Reverse polarity protection	Support
Mechanical Structure	Shell	Metal
	Cooling method	Natural cooling, no fan
	Protection level	IP40
	Size	140mm × 170mm × 60mm (W × H × D)
	Weight	<2kg
	Installation	Rail Type
Environment	Operating temperature	-20 ~ 60 °C
	Storage temperature	-40 ~ 85°C
	Relative humidity	5 ~ 95% No condensation
Industry Standards	EMI	FCC CFR47 Pafi 15, EN55022/CISPR22, Class A
	EMS	IEC 61000-4-2 (ESD) IEC61000-4-3 (RS) IEC 61000-4-4 (EFT) IEC61000-4-5 (Rise) IEC 61000-4-6 (CS)
	Mechanical	IEC60068-2-6(Vibration) , IEC60068-2-27(Shock) , IEC60068-2-32(Free fall)

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5G (optional )	Networking	SA, NSA
	Network Standard	5G NR/LTE-FDD/LTE-TDD/WCDMA
	Frequency band	Sub- 6GHz
	Antenna	SMA Interface (external thread and internal hole), 4 root
	SIM Card	Drawer-type card holder
Wi-Fi (optional )	Standard and frequency band	Support IEEE802.11 b/g/n , 2.4G Frequency band, supported AP Mode, Station model Support IEEE802.11 ac , 5.8G Frequency band, supported AP Mode, Station model
	Secure encryption	Support WEP , WPA , WPA2 Various encryption methods
	Transmit power	26dBm (11b) , 21.5dBm (11g) , 20dBm (11n) ,16dBm (11ac)
	Acceptance sensitivity	< - 72dBm@54Mbps
	Antenna	SMA Interface (external thread and internal hole), 2 root

## » Dimensions



## » Ordering Information

Product Model	Details
NewPre2300-R3399-M2D9MW0-0204A	LAN × 2/RS485 × 2/RS232 × 2/USB2.0 × 1/USB3.0 × 1/HDMI × 1
NewPre2300-R3399-M2D9MW3-0204A	LAN × 2/RS485 × 2/RS232 × 2/USB2.0 × 1/USB3.0 × 1/HDMI × 1/WIFI/5G
NewPre2300-R3399-M2D9MW3-0204C01A16DIO	LAN × 2/RS485 × 2/RS232 × 2/USB2.0 × 1/USB3.0 × 1/HDMI × 1/CAN × 1/DI × 8/DO × 8/WIFI/5G
NewPre2300-R3399-M2D9MW5-0204C01A16DAI	LAN × 2/RS485 × 2/RS232 × 2/USB2.0 × 1/USB3.0 × 1/HDMI × 1/CAN × 1/5G/Support NPU Accelerator Card
NewPre2300-R3399-M2D9MW5- 0204C01A16DIO	LAN × 2/RS485 × 2/RS232 × 2/USB2.0 × 1/USB3.0 × 1/HDMI × 1/CAN × 1/DI × 8/DO × 8/5G