

KYLAND

Smart Control Solutions

Enabling Software Defined Control



SMART CONTROLLER

Smart Controller

NewPre3101/3102	03
NewPre200/300	06

Modular Controller & IO

NewPre3200	13
NewPre5100	16
KYIO-H Remote I/O	20
KYIO-L Remote I/O	23

Motion Controller (Codesys)

KYAC311	40
KYAC323	42

IoT Edge Controller

NewPre2100	45
NewPre2300	48

Power Automation Server

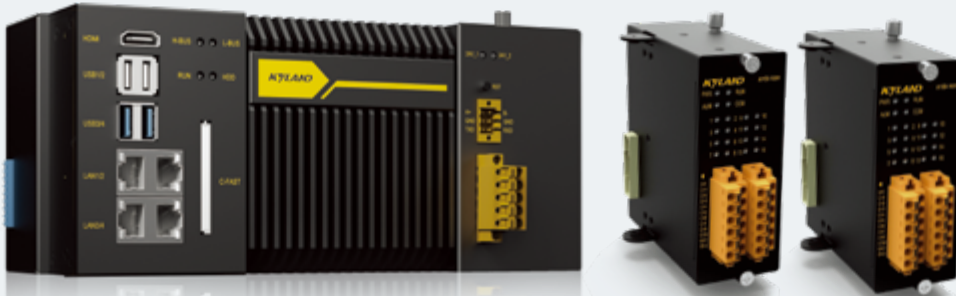
Hyperie8300	52
-------------	----

Software:

Intewell Operating System	59
MaVIEW	61

Modular Controller & IO

NewPre3200 Modular Controller



Extreme Performance in Miniaturization

- An efficient, fanless heat dissipation design ensures industrial-grade performance in a wide temperature range from -40 to 70°C.
- Complies with EMC standards, IP40 protection rating, meets the requirements of harsh industrial application scenarios.
- The size of 155mm x 100mm x 90mm is suitable for one-handed rail installation and operation.

Flexible module expansion

- Local Expansion: Supports local expansion modules, KYIO-H, including DI, DO, AI, AO, RTD, etc.

Simplified Integration

- Unified Device: A single Modular Edge Universal Controller replaces the traditional setup consisting of controllers, entry-level machine vision systems, HMI industrial computers, and edge computing gateways. This leads to fewer devices on-site, reduced system footprint, and lower power consumption.

- Pre-Installed Operating System: Comes with the pre-installed Intewell Operating System, featuring an internal virtual data bus that supports machine vision, industrial AI, PLC, motion control, human-machine monitoring, and 5G for various real-time and non-real-time applications.
- Graphical Control Development: Pre-installed MaVIEW graphical control development platform that supports IEC61131-3 as well as C++ and Python.
- Real-Time Guarantees: Capable of supporting a minimum cycle time of 50us for high-level real-time control.
- Motion Control: Supports PLCopen single-axis management, single-axis movement, multi-axis electronic gear coupling, electronic cams, cam profiles, etc. Supports multi-axis spatial arc and spatial linear interpolation.
- Communication Protocols: Supports Modbus RTU, Modbus TCP, EtherCAT, EtherNet/IP, Profinet, AUTBUS*1, and also custom serial/TCP protocols like OPC UA and MQTT.
- Redundancy: Supports dual-machine hot backup redundancy.
- Compatibility: Compatible with Windows/Linux desktop operating systems and supports third-party applications.

Note: *1 Requires AUTBUS conversion module, model ANY3311

» PRODUCT SPECIFICATIONS

	NewPre3200	
Computing	CPU	Intel 8th Gen Core i7/i5 processor
	Memory	8/16GB DDR4,DDR4
	Storage	Standard 128GB CFast, optional mSATA HDD
	Non-Volatile Storage	64KB (Optional)
Interface	Display Interface	Onboard 1 x HDMI, supports 1080P
	USB	2 x USB2.0, 2 x USB3.1
	Ethernet	4 x 100/1000BASE-T,RJ45
	Expansion Slots	Located on the right side of the Power Supply module, supports KYIO-H modules.
	Serial Ports	Located in the Power Supply module, 1 x RS232, 1 x RS485

Power Supply	Input	24VDC (18~ 36 VDC), terminal, with Power Supply isolation and redundancy support
	Output	DC 24VDC, 12VDC, backplane bus
	Main Unit Power Consumption	<50W
Mechanical Structure	Mechanical Structure	Aluminum Enclosure
	Protection Level	IP40
	Dimensions (mm)	Computing Module: 155 x 100 x 90 (W x H x D) Power Supply Module: 58 x 100 x 90(W x H x D)
	Total Weight	2.5kg
	Mounting Method	Rail-mounting
Environmental Conditions	Operating Temperature	-40 ~ 70°C
	Storage Temperature	-40 ~ 85°C
	Humidity	5 ~ 95% Non-condensing
	Cooling	Fanless
Industry Standards	EMI	FCC CFR47 Part 15,EN55022/CISPR22,Class A
	EMC	IEC 61000-4-2 (ESD), Air: ±8kV;Contact: ±6kV IEC 61000-4-3 (RS), 10V/m(80MHz ~ 2GHz) IEC 61000-4-4 (EFT), DC Power Port:±2kV,Singal Port:±2kV IEC 61000-4-5 (Surge), Power Port:±1kV/DM,±2kV/CM, Singal Port:±1kV (line to line),Singal Port:±2kV (line to earth) IEC 61000-4-6 (CS), Signal ports: 0.15-80MHz at 10V/m, Powerports: 0.15-80MHz at 10V/m
	Mechanical	IEC60068-2-6 (VIBRATION), IEC60068-2-27 (SHOCK), IEC60068-2-32 (FREE FALL)

ORDERING INFORMATION

Part Number	Description
NewPre3200-17-8665UE-M4D0-04B	i7-8665UE, 16G RAM, 128G Cfast
NewPre3200-AM01	NewPre3200 Power Module, 24V Input, 1x RS232, 1 x RS485

>> DIMENSIONS

