Specifications

Item		AC801-0221-U0R0-INT	AC802-0222-U0R0-INT	AC810-0122-U0R0-INT
Processor		Intel Celeron, 1.6 GHz	Intel Celeron, 1.6 GHz	Intel core, i5, 2.5 GHz
Memory		4G DDR4, 64G M.2(M key) SSD, 64M SPI Flash	4G DDR4, 128G M.2(M key) SSD, 64M SPI Flash	
Display		Built-in system status display module, 128 × 64 dot matrix, 4 buttons		
RJ45		1×EtherCAT master	2 x EtherCAT master redundancy supported LAN	
Serial		1×RS485, 1×RS232		
DI/DO		For power failure retention trigger/ system alarm signal output		
Power supply		24V DC (-20%~20%)		
Backup		UPS buffer option fe shut down (GA10-UPS12)		
System software		Full support for PLCopen		
		Inovance InoProShop based on CODESYS®		
		PLCopen/SoftMotion with CODESYS Runtime, supporting all motion control functions such as PLCopen/CAM/CNC/ROBOT		
Motion control performance		32 axes at 1 ms period		32 axes at 500 µs period
		Max. 48 axes	Max. 64 axes, 64 slaves	Max. 128 axes, 128 slaves
Instruction execution time	Bit instruction operation	0.7ns	0.7ns	0.5ns
	Integer operation	1.2ns	1.2ns	1ns
	Floating-point operation (Double precision)	2.5ns	2.5ns	1.8ns
Ethernet protocol		EtherNet/IP (scanner and adapter), OPC UA (server), Modbus TCP (master/slave)		
Cooling fan		Fanless natural cooling		2 long-life fans
EMC standard		EN61131-2 Zone B, EN61000-6-2, EN61000-6-4		
Ambient temperature		Operation: -5°C to 55°C Transportation and storage: -40°C to 70°C		
IP rating		IP20		
Dimensions (W x H x D)		65mm×265mm×164mm		
Mass		2.5kg		

Scan the QR code for more information of AC800;
For more information, please contact our local offices.

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INOVANCE

AC800 Series
X86 Motion Controller

Precision control for demanding industrial applications



X86 architecture powered by CORE I5 series CPU

CODESYS
Codesys-based platform

IOT
Remote commissioning & industrial IoT

OPC UA EtherNet/IP EtherCAT Modbus

CE cULus LISTED UKCA

Product features

Comprehensive functionality

- Remote commissioning and industrial IoT capabilities
- Embedded Webvisu server (AC810)
- EoE support with Inovance SV660N drives

Flexible communications

- Multi-layer networking due to support for multiple communication protocols including:

OPC UA EtherNet/IP EtherCAT Modbus TCP

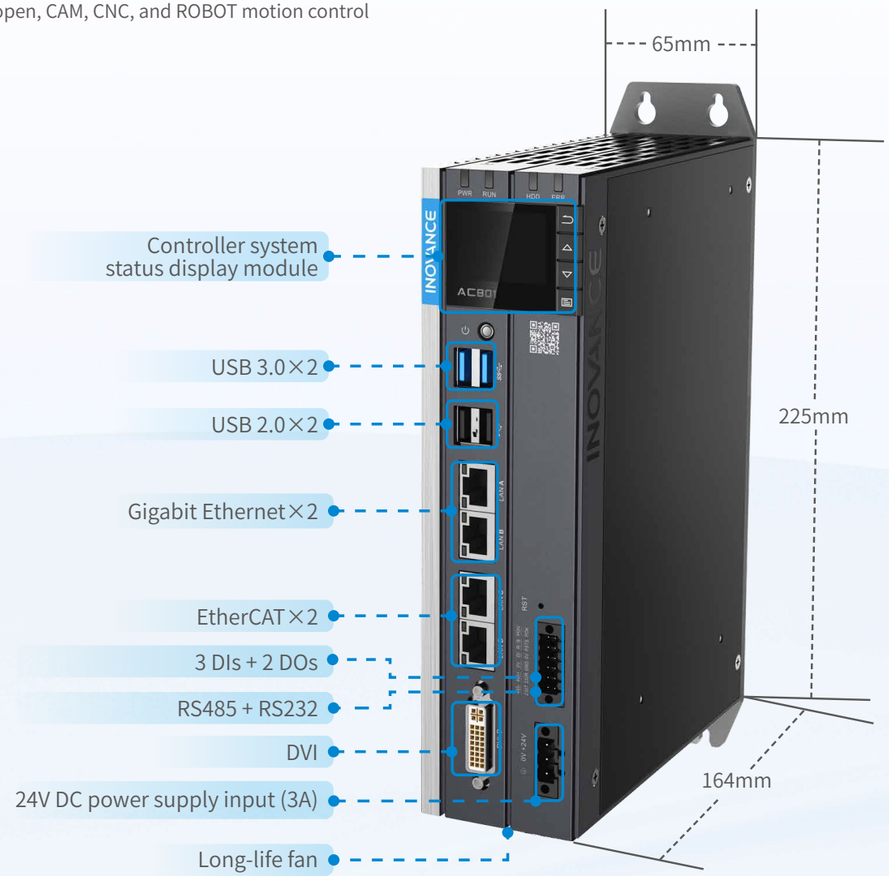
- Built-in RS485/232 serial communication, compatible with legacy equipment

Standard programming

- Fully standard IEC 61131-3 programming:
  ·ST, LD, SFC, CFC
- Codesys based components:
  ·PLCopen, CAM, CNC, and ROBOT motion control

High performance

- 32 axes at 500 μs EtherCAT period (AC810)
- 256 axes at 4 ms EtherCAT period (AC810)
- Dual EtherCAT ports (AC802 & AC810):
  ·Creation of two separate EtherCAT networks
  ·Communication redundancy within the same network
- EtherCAT I/O expansion support:
  ·Up to 128 EtherCAT remote I/O modules per port*1
  ·GR & GL series I/O expansion modules can be supported
- AC800 series support EtherCAT ring topology to realize communication redundancy



System overview

