

Performance Specifications

Item	Specification	
Number of Control Axis	Up to 32 axes (Both Real and Virtual Axes, Additionl 4 Virtual Axes possible)	
Type of Communication	EtherCAT (CoE, FoE)	
Applicable Servo Drives	Servo Drives supporting EtherCAT COE	
Cycle Times	0.5/1/2/4ms (Same as primary task's cycle time)	
Motion Program	Number of Programs	Up to 256 programs
	Capacity	10 Mbyte
	Programming Languages	ST, LD (Function Block), G-code
Control Modes	PTP control, Interpolation control, Speed control, Synchronous control, Torque control	
Manual Operation	Embedded Jog Function	
CAM Control	100~32,768 points (Max. 32 CAM profiles)	
Encoder Input	Number of Channels	2 channels (500kpps)
	Input Type	CW/CCW, Pulse/Dir, Phase A/B
	Digital I/O	8 inputs (High-speed) / 16 outputs (Tr. output)
Embedded I/O	Analog I/O	Channels: 2ch In, 2ch Out Input/Output Voltage Range: -10~10V / 0~10V / 1~5V / 0~5V Input Current Range: 4~20mA / 0~20mA Max. resolution: 14bit (1/16000), Accuracy: ±0.2% (25°C), ±0.3% (0~55°C)
	External I/O (Remote I/O)	Max. 64 Slaves of Remote I/O (Max. 32 Slaves in case of 32-Axes Control)
Coordinate Systems	Applicable Robot	Cartesian, Delta
	Control Language	Function Block
SD Card Slot	Memory Type	Micro SD / SDHC (FAT32)
	Max. capacity	Max. 8GB (In SD cards capable of more than 8GB, only up to 8GB is usable)
	Communication Speed	Auto / 10Mbps / 100Mbps
	Communication Port	1 port (Max. distance between nodes: 100m)
Embedded Ethernet	Service	Loader Service (XG5000) XGT Protocol (LS protocol), Modbus TCP FTP Server: Able to Read/Write SD Memory Files from Other Devices SNTP Client: Real-time Synchronization with Server
	USB	USB2.0, 1 channel (Loader Service_XG5000)
Operation Voltage	AC100V-AC240V / 50-60Hz	

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FUTURING SMART ENERGY

MOTION CONTROLLER

XMC-E32A



LSIS

XMC-E32A

MOTION CONTROLLER

True Realization of Smart Factory Automation We Have Dreamed of!
 Innovative Motion Control Solution to Introduce Future of Factory Automation

The XMC-E32A programmable motion controller realizes automation of manufacturing industries with a cost-effective yet easy and user friendly engineering solution. The XMC-E32A delivers high performance EtherCAT-based motion control functionalities along with a variety of embedded functionalities and high-tech capabilities specialized for numerical control and robots. In addition to LS PLC, HMI and servo products, the XMC-E32A will help you create an even better and optimal solution.

Productivity

- High-speed program processing: 6.25ns [Basic command]
- EtherCAT-based high speed cycle times: 0.5/1/2/4ms [Same as primary task's cycle time]
- Built-in Digital and Analog IO

Efficiency

- Integration with variety of EtherCAT devices
 - Servo Drive (Up to 32 axes), remote I/O (Up to 32 I/Os), AC Drives, Robots and etc.
- Various built-in functionalities
 - 8 digital inputs / 16 digital outputs, analog inputs (2 ch) / analog outputs (2 ch), encoder inputs (2 ch), Ethernet

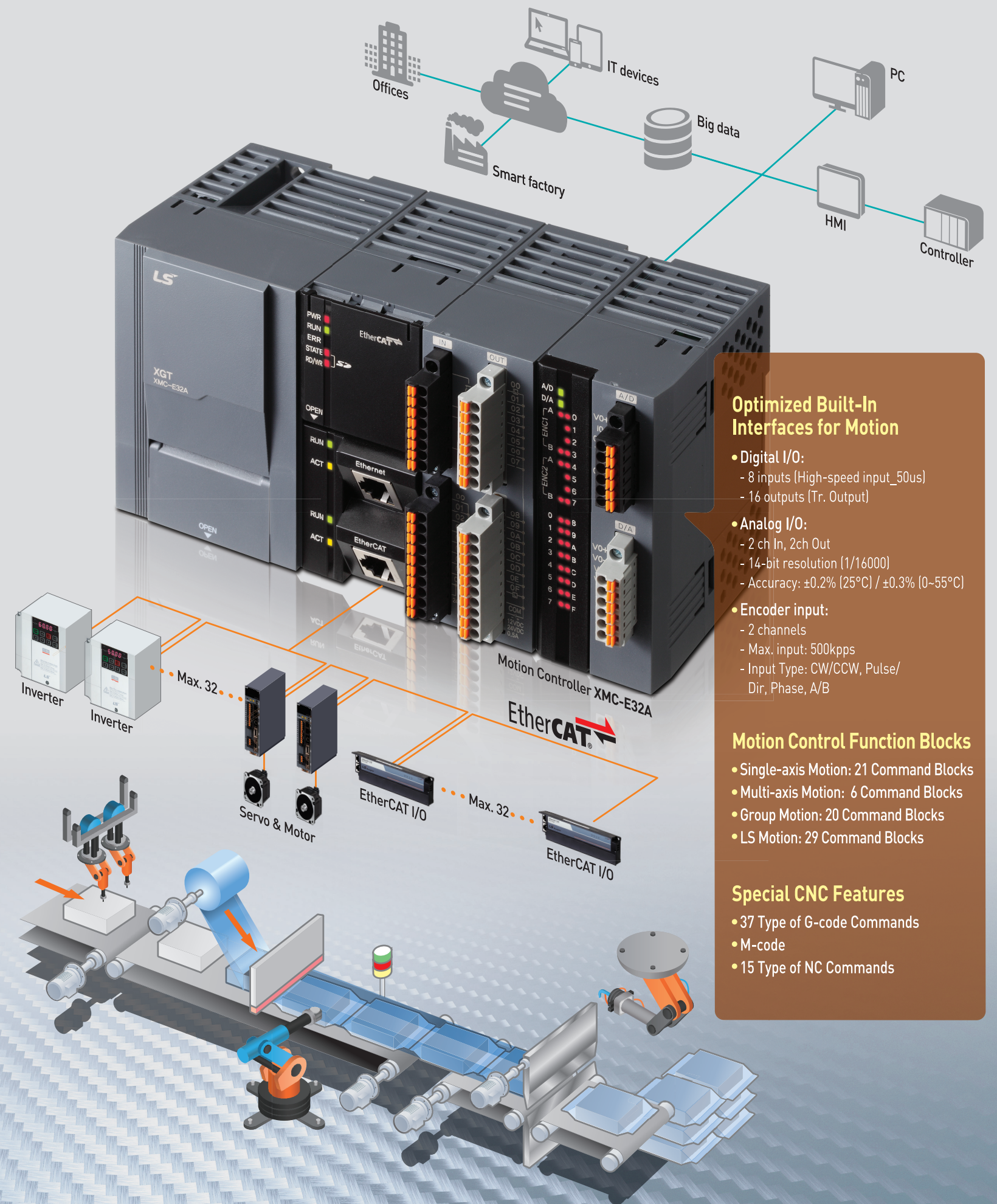
Convenience

- XG5000 software for programming and monitoring
 - Integrated architecture for programming, diagnose and simulation with PLC
 - IEC standard Motion Function Blocks
- SD card slot (SD card not included)
 - Program save and execution, Data Logging

Specialty (Professional)

- CAM control: 100-32,768 points (Up to 32 CAM profiles)
- Supports G-code
- Robot control: Delta-3, Delta-3R, Linear Delta and etc.

Programmable Logic Controller XMC-E32A



Optimized Built-In Interfaces for Motion

- Digital I/O:
 - 8 inputs (High-speed input_50us)
 - 16 outputs (Tr. Output)
- Analog I/O:
 - 2 ch In, 2ch Out
 - 14-bit resolution (1/16000)
 - Accuracy: $\pm 0.2\%$ (25°C) / $\pm 0.3\%$ (0-55°C)
- Encoder input:
 - 2 channels
 - Max. input: 500kpps
 - Input Type: CW/CCW, Pulse/Dir, Phase, A/B

Motion Control Function Blocks

- Single-axis Motion: 21 Command Blocks
- Multi-axis Motion: 6 Command Blocks
- Group Motion: 20 Command Blocks
- LS Motion: 29 Command Blocks

Special CNC Features

- 37 Type of G-code Commands
- M-code
- 15 Type of NC Commands