



Programmable Logic Controller

XGB U

Ultimate Performance
Universal IoT
User Oriented



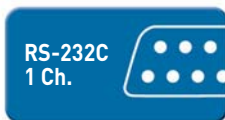
Programmable Logic Controller

XGB U

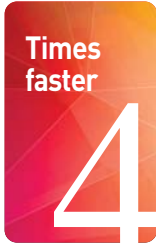
What you have dreamed of, we make happen.

XGB U sets new standards in **Ultimate performance** with its many innovations
IoT (Internet of Things) making the smart factory a reality.
XGB-U, the **User Oriented Controller**

Built-in analog type

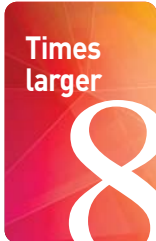
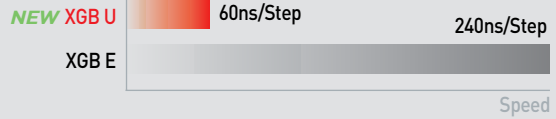


* The actual size of the product



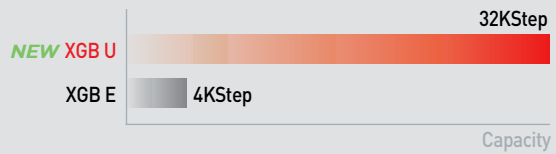
CPU Processing Speed

4 times faster CPU speed than XGB-E

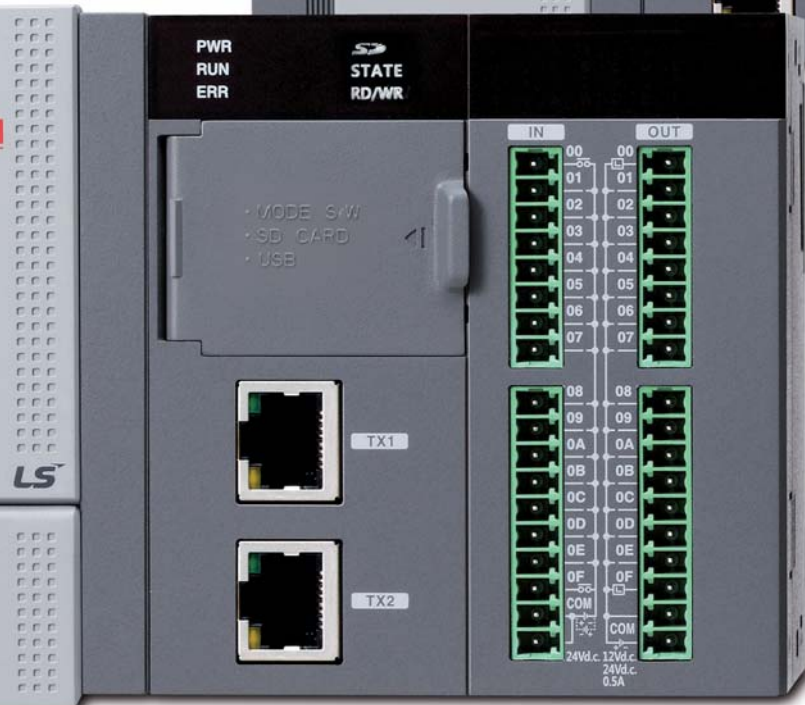
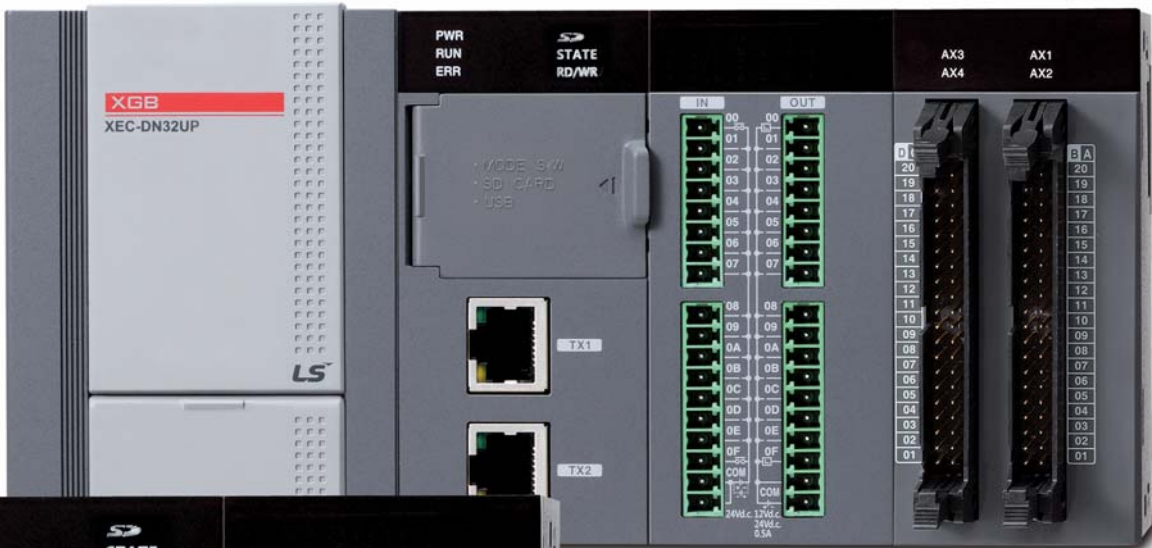


Program Capacity

8 times larger memory capacity than XGB-E



Built-in positioning type



Standard type

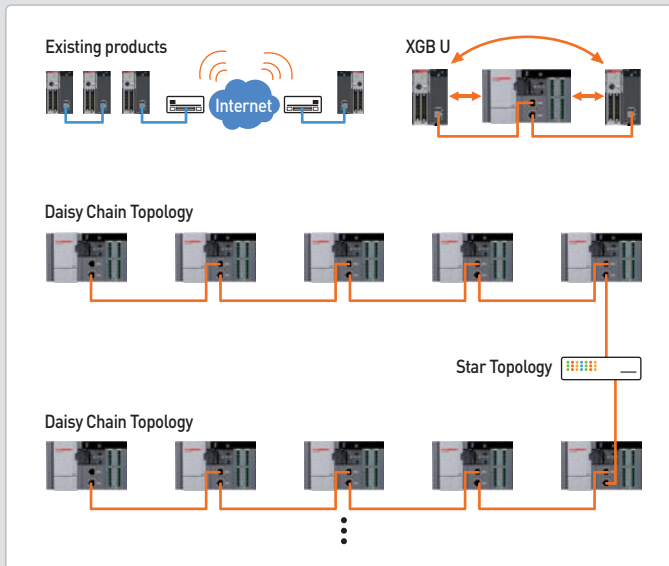
Various Expansion

- Compatible with XGB expansion modules
- Max. 2 High speed backplane expansion modules
- Max. 10 expansion modules
- Max. 352 I/O points
- Expansion I/O module
 - DC24 input, Transistor output, Relay output
- Special module
 - Analog input, Analog output, RTD, Thermocouple, High-speed counter, Positioning (Line drive 2 axes, EtherCAT network 8 axes)
- Communication modules
 - RS-232C, RS-422/485, Ethernet, CANopen (Master/Slave), Profibus-DP (Master/Slave), DeviceNet (Slave), EtherNet/IP, RAPIenet

You will experience utmost efficiency for your applications

Dual Port Ethernet

- 2 ports unmanaged Ethernet switch support
- Cost saving through simple wiring
- FTP server support (Data logging)

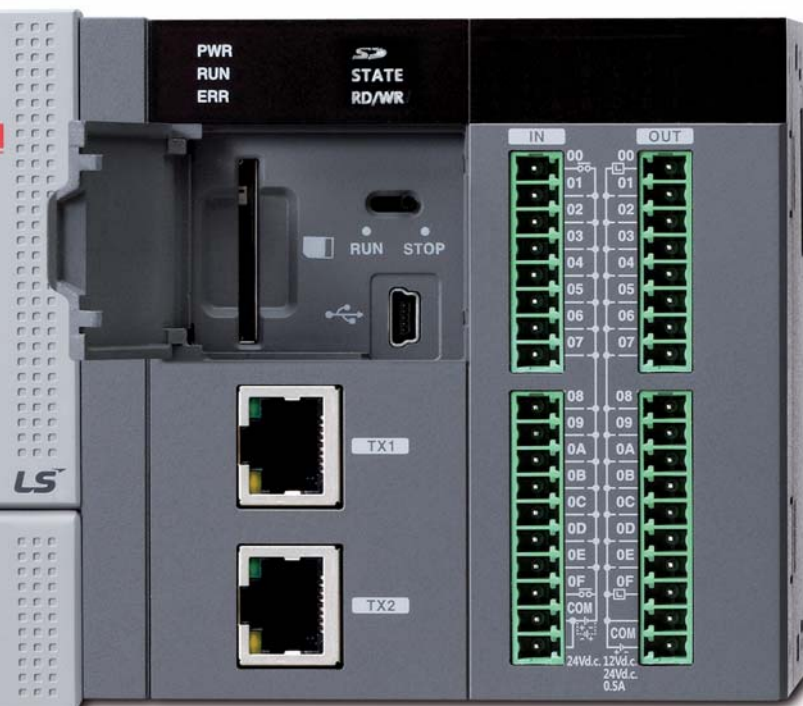
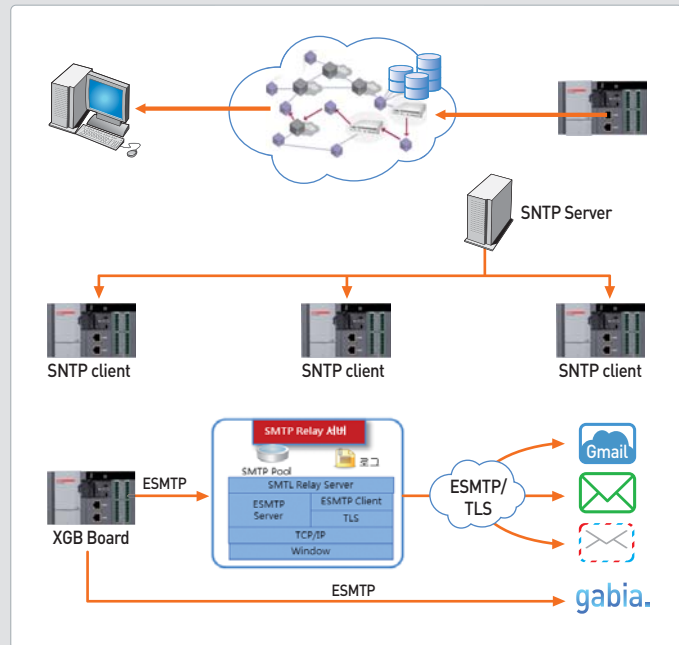


Positioning

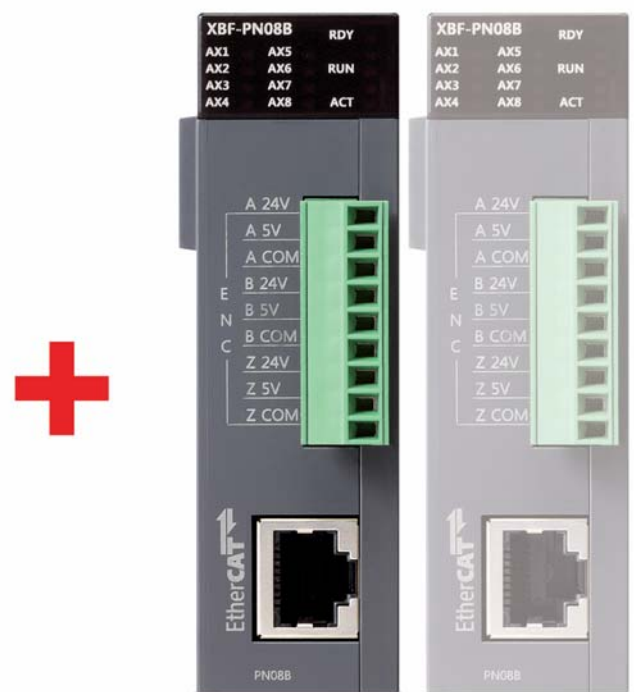
- 4 axes built-in Positioning line drive pulse output (XEC/XBC-DN32UP)
- Position control, speed control, position/speed control, speed/position control, linear/circular/helical interpolation, CAM control

Web Server

- Monitoring of PLC information and data through web browser (PLC basic info., module info., diagnosis, device monitoring, flag monitoring, data log file download, O/S update, ladder program update, etc.)
- Time synchronization by setting basic parameters (SNTP: Simple Network Time Protocol)
- Email service through commercial email (SMTP: Simple Mail Transfer Protocol)



Standard type



High speed interface module: Max. 2 stages

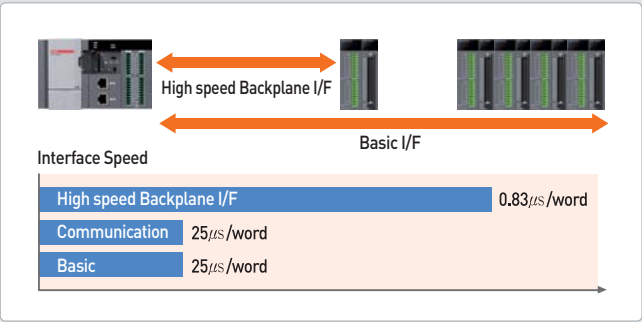
with U's outstanding features

Data Log

- Easy parameter set up for [General save], [Trigger save], [Event save] without instruction
- 16GB of operation data storable
- Additional function
 - SD memory format, FTP link, Diagnosis, sending E-mail
 - PLC program upload/download
 - O/S update

Expansion

- Max. 10 expansion modules
- Max. 2 High speed backplane modules
- Max. 2 Communication modules

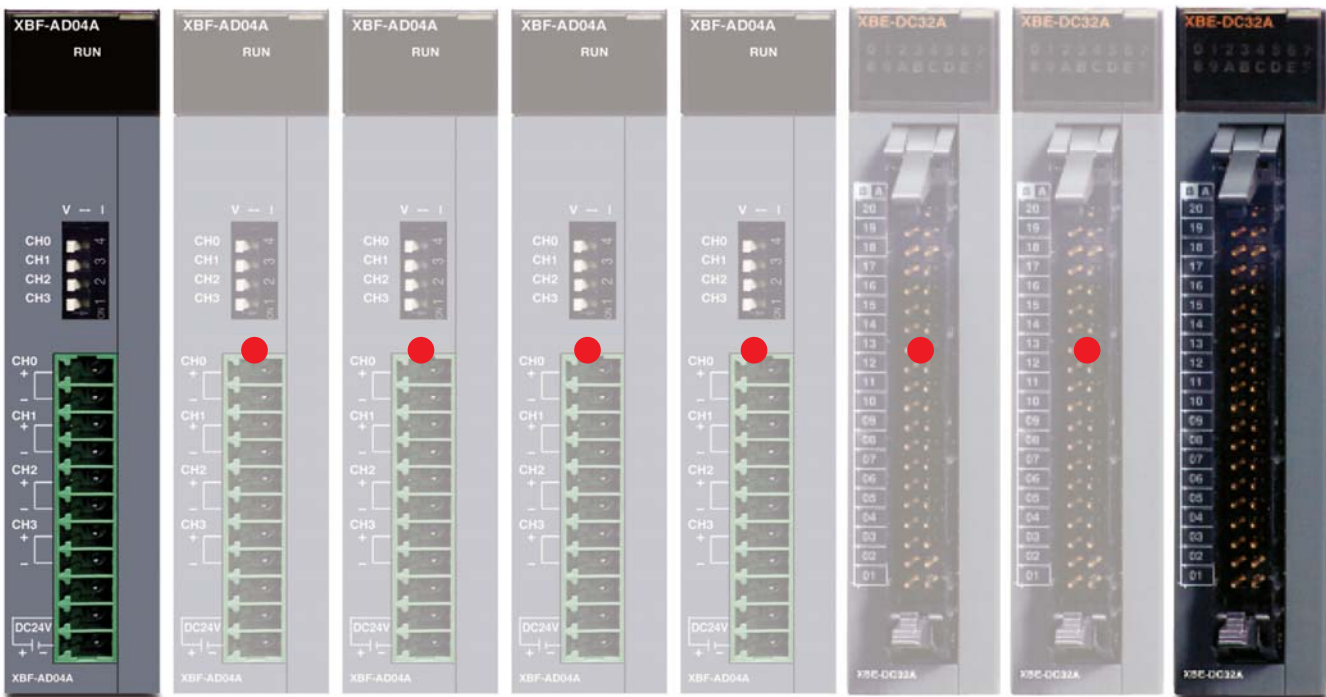
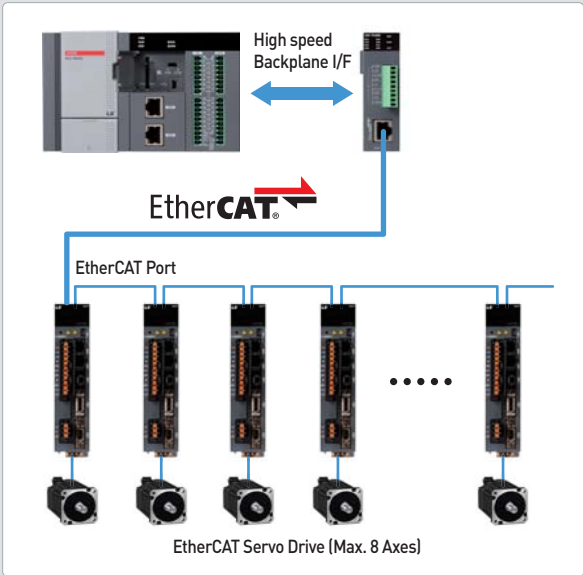


Analog Input/Output

- Built-in analog function (XEC/XBC-DN32UA)
- 4ch. Input, Output
- Resolution: 1/16,000, conversion speed: 0.5ms/ch

EtherCAT Positioning Module (XBF-PN08B)

- High speed backplane transmission through USB host function
- Standard EtherCAT protocol, CoE (CANopen over EtherCAT)
- 1ms communication cycle
- Max. 8 axes servo driver control
- 2-8 axes linear interpolation, 2 axes circular interpolation, 3 axes helical interpolation, 8 types of CAM data to control CAM



High speed interface module + Basic expansion module: Max. 10 stages

Performance Specification

Item	XBC-DN32U	XBC-DR28U	XBC-DN32UA	XBC-DR28UA	XBC-DN32UP	XBC-DR28UP
Programming language	Ladder Diagram, Instruction List					
Processing speed (Basic instruction)	60ns/step					
Program capacity	32Kstep					
Max. I/O points	Main+Expansion 10 stages					
Built-in	High-speed counter	100kHz*8ch				
	Data log	Memory: SD [16GB], File format: CSV				
	Analog	-	AD 4Ch, DA 4Ch		-	
	Positioning	-	-		2Mpps*4axes	
	Ethernet	10Mbps/100Mbps, 2 Port				
Data area	P	P00000 ~ P2047F(32,768 point)				
	M	M00000 ~ M2047F(32,768 point)				
	K	K00000 ~ K8191F(131,072 point)				
	L	L00000 ~ L4095F (65,536 point)				
	F	F00000 ~ F2047F (32,768 point)				
	T	100ms, 10ms, 1ms: T0000 ~ T2047 (2,048 point)				
	C	C000 ~ C2047 (2,048 point)				
	S	S00.00 ~ S127.99				
	D	D00000 ~ D19999(20000word)				
	U	U00.00 ~ U0B.31 (384 word)				
Z	Z000~Z127 (128 word)					
N	N0000~N10239(10,240 word)					
Operation mode	RUN, STOP, DEBUG					
Self-diagnosis function	Detects errors of scan time, memory, I/O and power supply					
Program port	USB 1 channel					
Back-up method	Latch area setting in basic parameter					
Internal consumption current	700mA	990mA	780mA	1,040mA	1,250mA	1,550mA
Weight	571g	630g	683g	732g	673g	722g

Item	XEC-DN32U	XEC-DR28U	XEC-DN32UA	XEC-DR28UA	XEC-DN32UP	XEC-DR28UP	
Programming language	Ladder Diagram, Instruction List						
Processing speed (Basic instruction)	60ns/step						
Program capacity	32Kstep						
Max. I/O points	352	348	352	348	352	348	
Built-in	High-speed counter	100kHz*8ch					
	Data log	Memory: SD [16GB], File format: CSV					
	Analog	-	AD 4Ch, DA 4Ch		-		
	Positioning	-	-		2Mpps*4axes		
	Ethernet	10Mbps/100Mbps, 2 Port					
Data area	Symbolic variable(A)	64KB (Retain setting available)					
	Input variable(I)	2KB					
	Output variable(O)	2KB					
	Direct variable	M	32KB (Retain setting available)				
		R	32KB*2 blacks				
		W	64KB				
	Flag variable	F	4KB				
		K	16KB				
		L	8KB				
		U	768Byte				
N		20KB					
Operation mode	RUN, STOP, DEBUG						
Self-diagnosis function	Detects errors of scan time, memory, I/O and power supply						
Program port	USB 1 channel						
Back-up method	Latch area setting in basic parameter						
Internal consumption current	700mA	990mA	780mA	1,040mA	1,250mA	1,550mA	
Weight	571g	630g	683g	732g	673g	722g	

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Specifications in this catalog are subject to change without notice due to continuous product development and improvement.