



Programmable Logic Controller

XGB U

Ultimate Performance
Universal IoT
User Oriented



Programmable Logic Controller

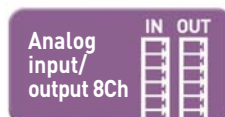
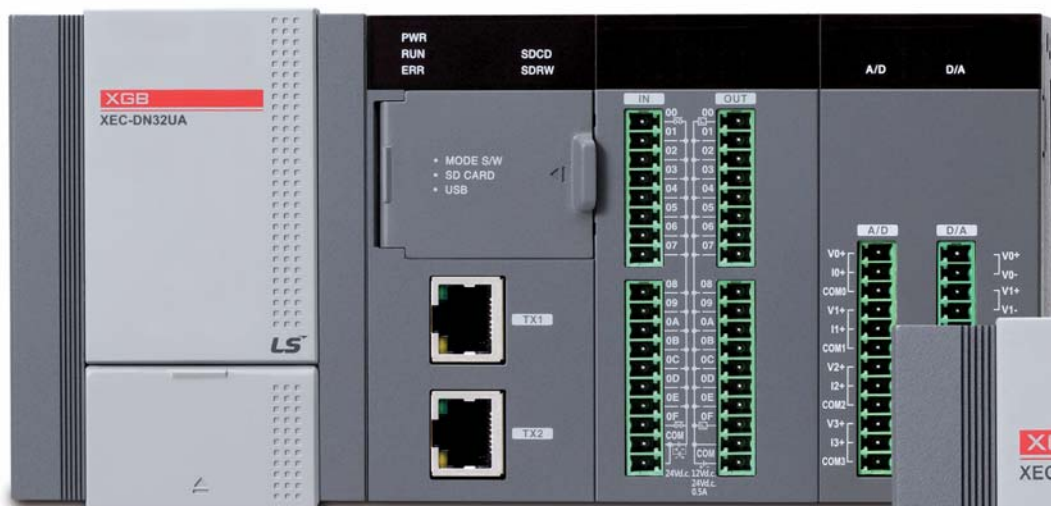
XGB U

What you have dreamed of, we make happen.

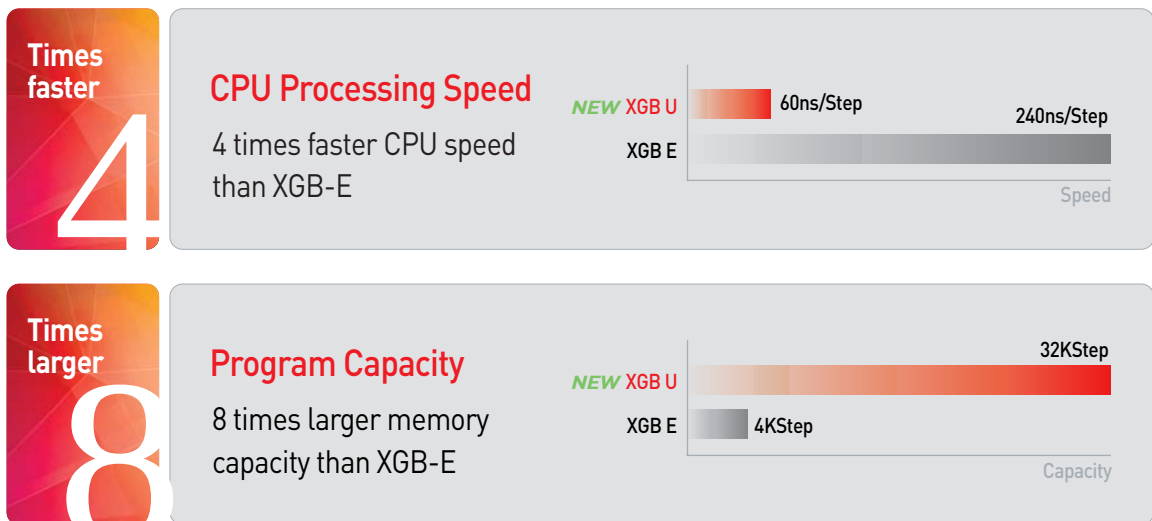
XGB U sets new standards in **Ultimate performance** with its many innovations
IoT (Internet of Things) making the smart factory a reality.

XGB-U, the **User Oriented Controller**

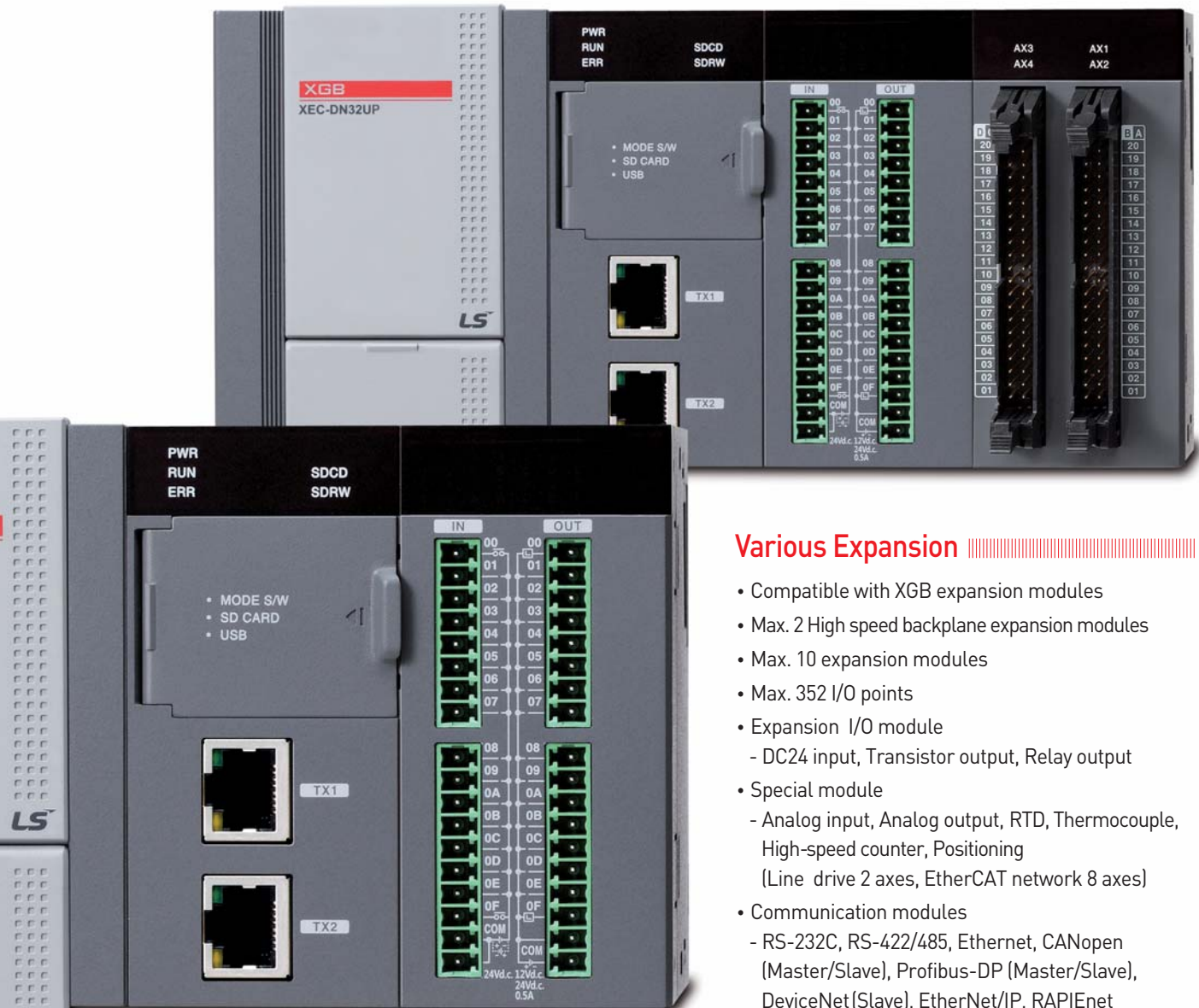
Built-in analog type



* The actual size of the product



Built-in positioning type



Standard type

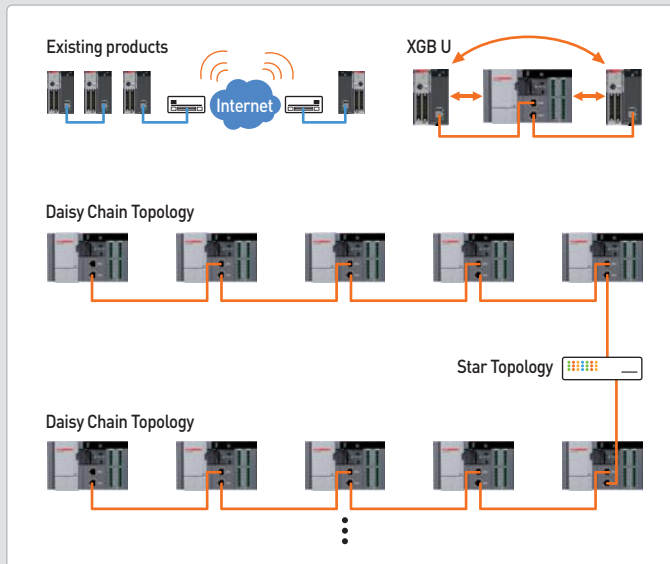
Various Expansion

- 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)

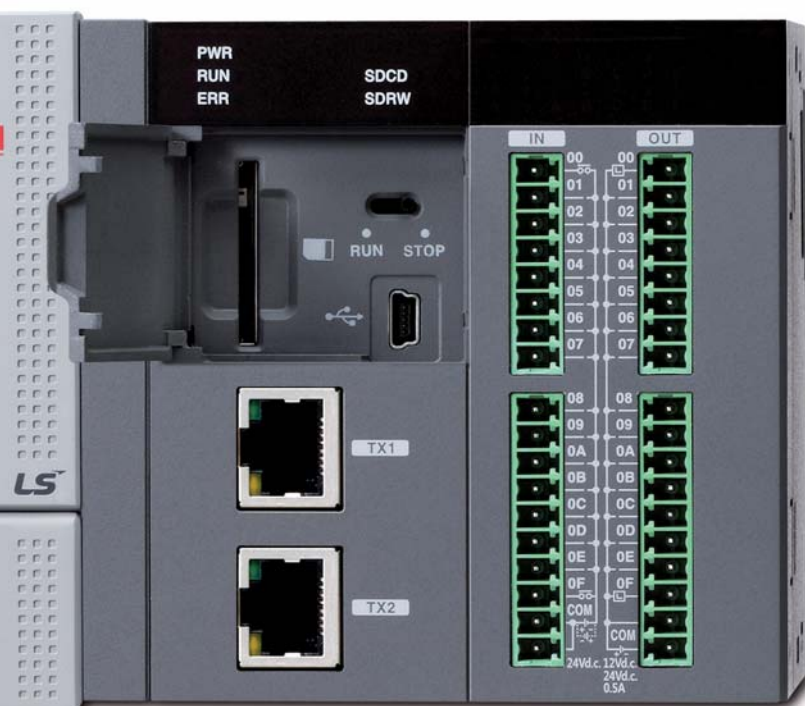
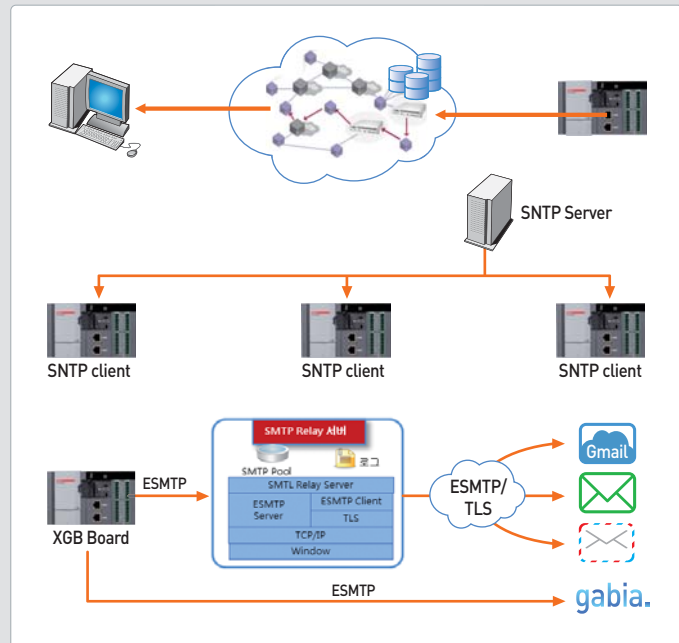


Positioning

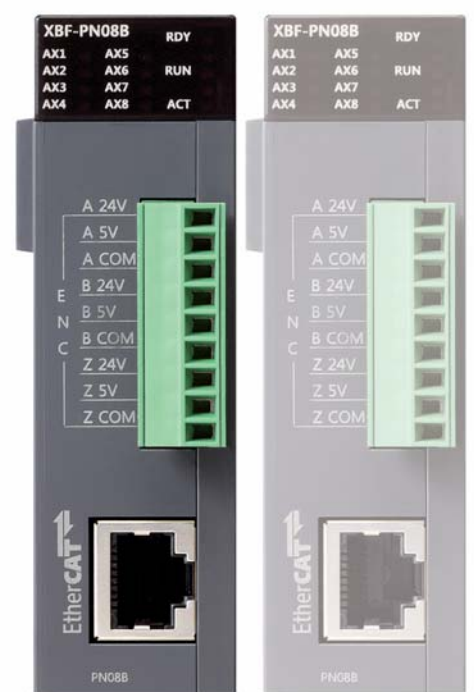
- 4 axes built-in Positioning line drive pulse output (XEC/XBC-DN32UP)
- Position control, speed control, position/speed control, speed/position control, linear/circular/helical interpolation, CAM control

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

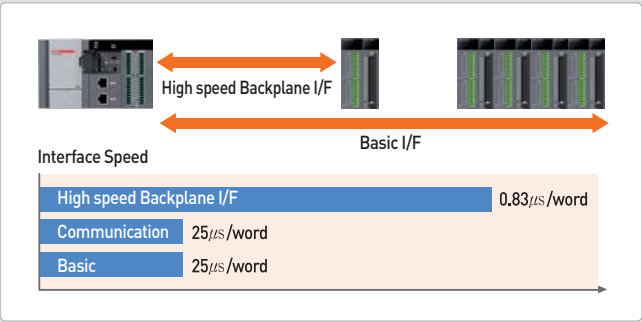
with U's outstanding features

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

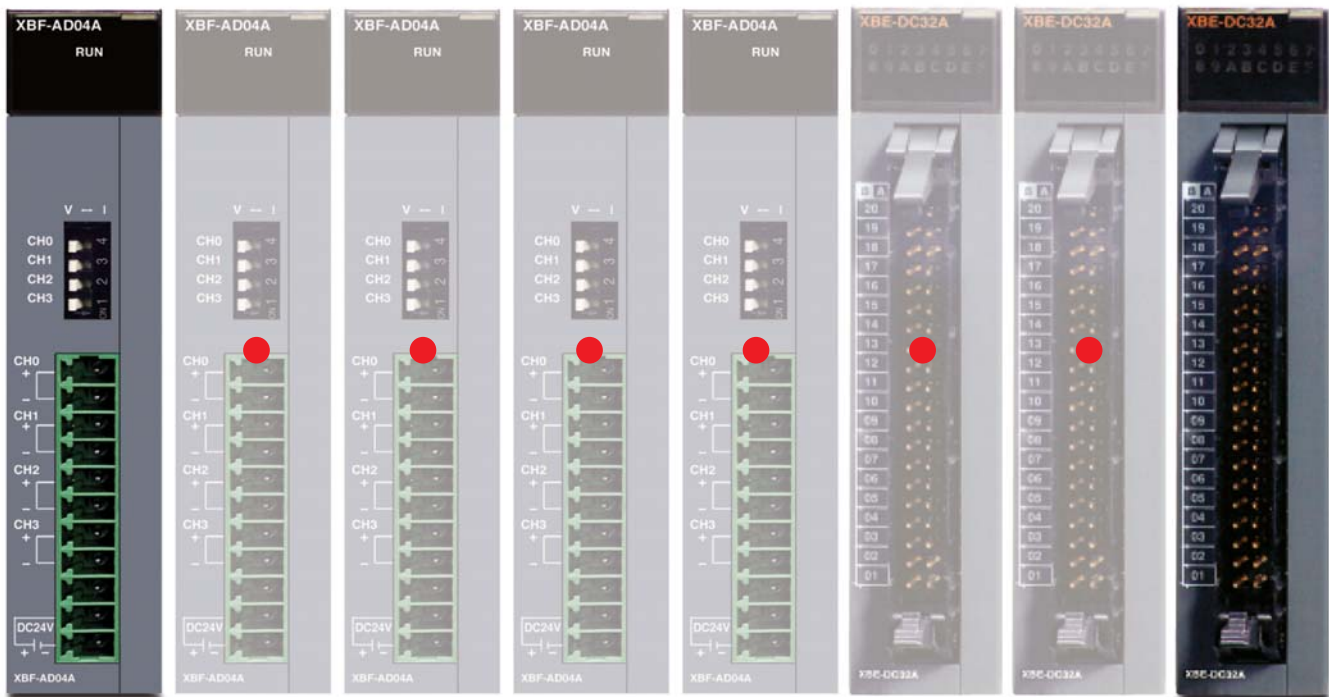
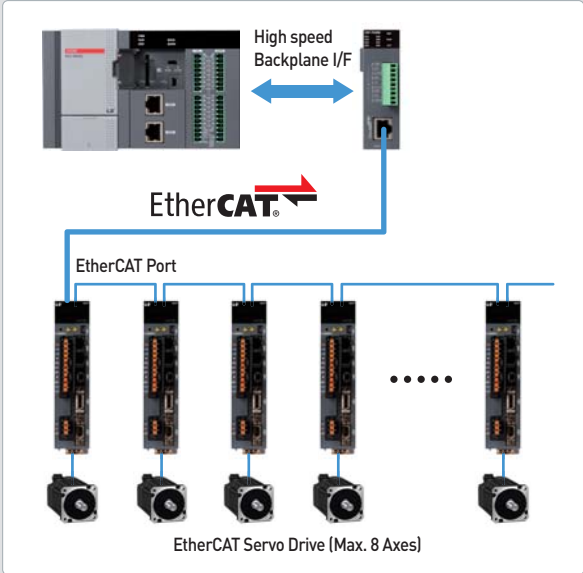


Analog Input/Output

- 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-DN32UA	XBC-DN32UP
Programming language		Ladder Diagram Instruction List		
Processing speed		60ns/step		
Program capacity		32Kstep		
Max. I/O points		352 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	P0000 ~ P2047F (32,768 Points)		
	K	K00000 ~ K8191F (131,072 Points)		
	L	L00000 ~ L4095F (65,536 Points)		
	F	F000 ~ F2047F (32,768 Points)		
	T	100ms,10ms,1ms: T000 ~ T2047 (2,048 Points)		
	C	C000 ~ C2047 (2,048 Points)		
	S	S00.00 ~ S127.99		
	D	D0000 ~ D19999 (20000 word)		
	U	U00.00 ~ U0B.31 (384 word)		
	Z	Z000~Z127 (128 word)		
	N	N0000~N10239 (10240 word)		
	R	RAM: 2 blocks (R0 ~ R16,383) FLASH: 4 blocks (128Kbyte)		
Total program		256		
Operation mode		RUN, STOP, DEBUG		
Self diagnosis		Detects errors of scan time, memory, I/O		
Program port		USB (1Ch)		

Item		XEC-DN32U	XEC-DN32UA	XEC-DN32UP
Programming language		Ladder Diagram SFC (Sequential Function Chart) ST (Structured Text)		
Processing speed		60ns/step		
Program capacity		384KB		
Max. I/O points		352 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	Symbolic variable(A)	64KB (Retain setting available)		
	Input variable(I)	2KB (%IX15.15.63)		
	Output variable(O)	2KB (%QX15.15.63)		
	Direct variable	M	32KB (Retain setting available)	
		R	32KB*2 blacks	
		W	64KB	
	Flag variable	F	4KB	
		K	16KB	
		L	8KB	
		N	20KB	
U		768Byte		
Flash area		128KB (4 blocks)		
Total program		256		
Operation mode		RUN, STOP, DEBUG		
Self diagnosis		Detects errors of scan time, memory, I/O		
Program port		USB (1Ch)		

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