

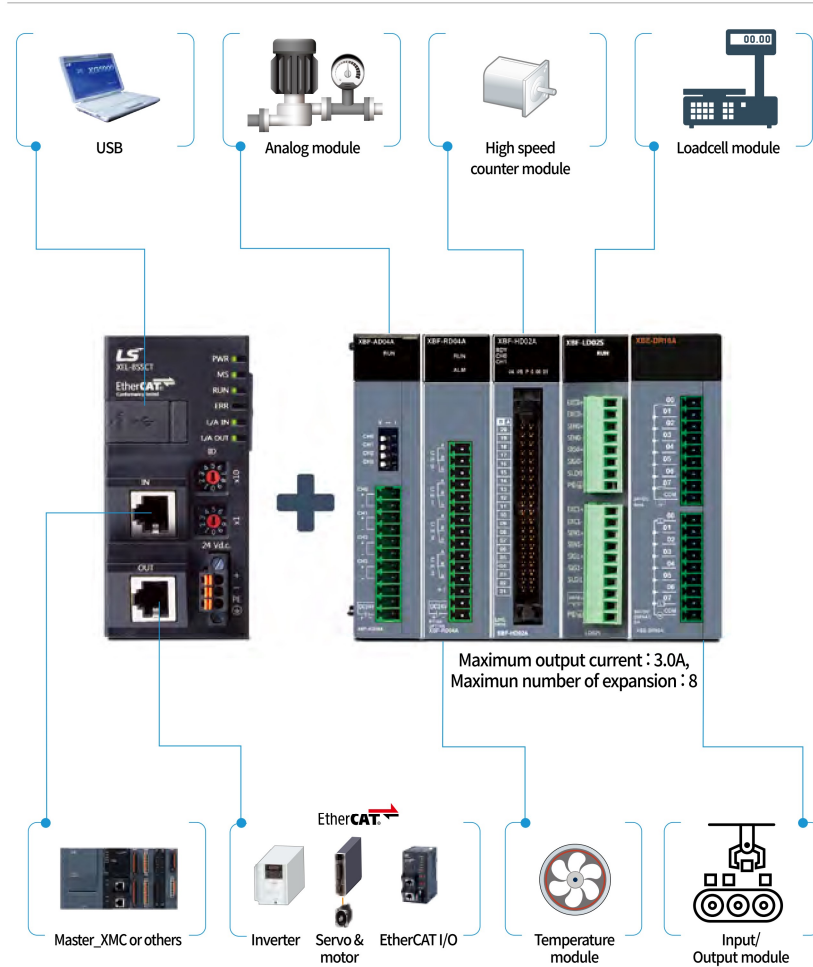
EtherCAT Smart I/O XEL-BSSCT

EtherCAT-Based connectivity



System Configuration

Connectivity with EtherCAT master (XMC-E32A/16A/08A/E32C) offers a total motion solution with devices such as sensors and analog modules



Performance Specification

Classification	Item		Specification	
Performance Specification of Adapter	Maximum Number of Expansion		8	
	Operation Mode		RUN, STOP (The test operation through the XG5000 is only available in STOP mode.)	
	Refresh Time		DC sync0 time x refresh time (0 ~ 100)	
	Standard Input Filter		1, 3, 5, 10, 20, 70, 100ms	
	Self-Diagnosis Function		Indication of a current error and warning	
	EEPROM	Self-Recovery Function		Enable/disable automatic recovery
		EEPROM Size		4 KB
	Memory	System Flag Area	F	2 KB
		Extension Module Mapping area	I	2 KB
			Q	2 KB
			U	1 KB
	External Connection Terminal	Programming Port		USB 1 channel
		Communication Port		RJ45 2 ports (Response to shield)
Power Port		3-Pin push-in/screw fixing type connector		
Status Indicator LED		6 types including PWR, MS, RUN, ERR, IN and OUT		
Communication Specification of EtherCAT	Maximum Number of Expansion Modules to be Mounted		8 modules	
	Communication Protocol		EtherCAT	
	Data Transfer Speed		100mbps	
	Physical Layer		100BASE-TX (IEEE 802.3)	
	Topology		Conforms to the specification of EtherCAT master.	
	Transmission Media		STP (Shielded twisted-pair) Cable with category 5 or higher	
	Transmission Distance		100m or less between the nodes	
	Size of PDO Data for Transmission and Reception		Input : Up to 1,024 byte, Output : Up to 1,024 byte	
	Size of Mailbox Data		Input : Up to 256 byte, Output : Up to 256 byte	
	Mailbox Support Command		SDO requests, SDO information	
	Refresh Method		Free-run, Refresh sync mode (For LS ELECTRIC Co., Ltd. only)	
	Node Address Setting Method		Rotary switch, Master, PADT	
	Node Address Setting Range		Explicit ID(1 ~ 99)	
Alias address(1 ~ 65535)				
Applies the EEPROM value set by the master when setting PADT 0				

Power Specification

	Item	Specification	Condition
Input	Rated Input Voltage	DC24V	
	Input Voltage Range	DC20.4 ~ 28.8V (-15%, +20%)	Within -15% and +20% of the rated input
	Input Current	Less than 1.3A (Typ.1A)	Input+DC28.8V, Maximum load
	Inrush Current	50A peak or less	Input+DC28.8V, Maximum load
	Efficiency	80% or more	Input+DC28.8V, Maximum load
	Permitted Instantaneous Interruption	Within 10 ms	Input+DC28.8V, Maximum load
Output	Rated Output Voltage	DC5V (±2%)	
	Output Current	3.0A	
Indication of Voltage Status		LED on when the output voltage is normal	
Cable Specification		22 ~ 20 AWG (0.3 ~ 0.5mm ²)	