

SMART I/O

Expandable Type



Features

- Easy configuration of remote system using XGB expansion I/O
- Up to 8 modules expandable with Network adapter
- Max. 256 point digital I/O
- Max. 16 channel analog I/O
- Network adapter: Profibus-DP, DeviceNet, Rnet, Modbus TCP, EtherNet/IP



Modbus TCP, EtherNet/IP DeviceNet Profibus-DP

Available Module

In/Out	Part Number	XDL-BSSA	XPL-BSSA	XEL-BSSA	XEL-BSSB	XRL-BSSA
DC Input	XBE-DC08A	○	○	○	○	○
	XBE-DC16A(B)	○	○	○	○	○
	XBE-DC32A	○	○	○	○	○
Relay Output	XBE-RY08A(B)	○	○	○	○	○
	XBE-RY16A	○	○	○	○	○
TR Output	XBE-TN(TP)08A	○	○	○	○	○
	XBE-TN(TP)16A	○	○	○	○	○
	XBE-TN(TP)32A	○	○	○	○	○
Mixed	XBE-DR16A	○	○	○	○	○
	XBF-AD04A	○	○	○	○	○
A/D (V/I)	XBF-AD08A	×	○	○	○	○
	XBF-AD04C	×	○	○	○	○
D/A (I)	XBF-DC04A	○	○	○	○	○
	XBF-DC04C	×	○	○	○	○
D/A (V)	XBF-DV04A	○	○	○	○	○
	XBF-DV04C	×	○	○	○	○
Mixed	XBF-AH04A	○	○	○	○	○
RTD	XBF-RD04A	○	○	○	○	○
TC	XBF-TC04S	○	○	○	○	○
Position	XBF-PD02A	×	×	×	×	×

Modbus TCP, EtherNet/IP Specification

Item	Specification	
Communication Speed	10/100Mbps	
Transmission Path Method	Base Band	
Standard Functions	IEEE 802.3	
Flow Control	HALF/FULL	
Modulation Type	NRZI	
Max. Distance Between Nodes	100m	
Max. Protocol Size	Data 1500byte	
Communication Zone Access Method	CSMA/CD	
Check Method for Frame Error	CRC32	
Connector Connection	RJ-45(2Port)	
IP Setting	S/W Setting	
Topology	Bus, Star	
Protocol	MODBUS/TCP, EtherNet/IP	
Max. Digital I/O Point	512 (input 256, output 256)	
Max. Digital I/O Connection Number	8	
Max. Analog I/O Connection Number	8	
Expansion Analog Module Occupation Number	8byte	
Power	Rated Input Voltage/Current	DC 24V/0.7A
	Power Range	DC 19.2V ~ 28.8V
	Output Voltage/Current	5V(±20%)/1.5A
	Insulation	Non-insulation
Weight(g)	100	

DeviceNet Specification

Item	Specification	
Communication Interface	Poll, Bit-strobe, COS/Cyclic	
	Group 2 only slave	
	Auto baud rate	
Master/Slave	Slave	
Max. Station	64 (including master)	
Max. No. of Extension I/O Equipment	8	
Max. Digital I/O Point	512 point (input max 256 point/output max 256 point)	
Max. No. of Analog I/O Channel	Input 16 channels (output 16 channels)	
Communication Speed & Distance	Speed	125kbps 250kbps 500kbps
	Distance	500m 250m 100m
Input Power	Rated Input Voltage	DC 24V
	Power Range	19.2V ~ 28.8V (available to operate in 11V)
	Output Voltage/Current	5V(±20%) / 1.5A
	Insulation	Non-insulation
Basic Specification	Weight (g)	100

Profibus-DP Specification

Item	Specification					
Standard	EN50170 / DIN 19245					
Interface	RS-485					
Medium Access	Polling					
Topology	Bus					
Encoding Method	NRZ					
Communication Interface	Sink mode, Freeze mode					
	Auto baud rate					
Master/Slave	slave					
Cable	Shielded Twisted Pair					
	Speed (Kbps)	9.6	19.2	93.75	187.5	500
		Distance (m)	1200	1200	1200	1000
	Speed (Kbps)		1500	3000	6000	12000
Distance (m)		200	100	100	100	-
	Max. Node	100 station (setting range: 0 ~ 99)				
Max. Modular Type I/O Equipment No.	8					
Max. Digital I/O Point	512 point (input Max. 256 point/output max. 256 point)					
Max. Analog I/O Channel No.	32 channels (input Max. 16 channels/output Max. 16 channels) (analog module occupy digital 64 point)					
Input Power	Rated Input Voltage/Current	DC 24V/ 0.55A				
	Power Range	DC19.2 ~ 28.8V				
	Output Voltage/Current	5V(±20%) / 1.5A				
	Insulation	Non-insulation, communication part insulation				
Weight (g)	100					