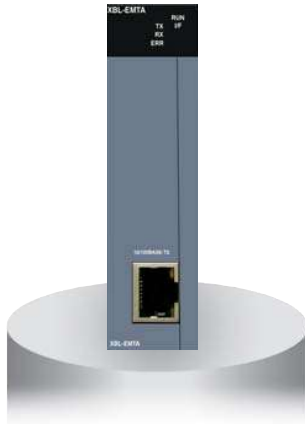


Ethernet (XBL-EMTA)



Item	XBL-EMTA	
Communication spec.	10/100 Base-TX	
Protocol	TCP/IP, UDP/IP	
Service	With LS PLCs	High-speed link, P2P service
	With other devices	P2P service
	Application	XGT Dedicated protocol Server/Client, Modbus/TCP Server/Client
HS link sending/Receiving data	200words/block (Max. 64blocks)	
No. of channel Connectable to upper stage	6 channels	
Service	Communication with PC (HMI) and external devices, High-speed communication among LS ELECTRIC PLCs	
Media	UTP/STP Category 5	
Current consumption (mA)	300	

RS-232C, RS-422 / 485



Item	Built-in RS-232C	XBL-C21A	Built-in RS-485	XBL-C41A
Interface	RS-232C 1ch	RS-232C 1ch	RS-485 1ch	RS-422 / 485 1ch
MODEM function	Remote communication via the external MODEM (XBL-C21A Only)			
Mode	Dedicated mode	1:1 or 1:N via the dedicated protocol		
	XG5000 mode	Program download, Upload and control via the remote control		
	P2P mode	Communication defined by the protocol using XG-PD XGT/Modbus master		
Operation mode	Server (slave)	XGT/Modbus server, User-defined communication		
	Client (master)	XGT/Modbus P2P Master, User-defined communication		
Data format	Start Bit	1		
	Data Bit	7 or 8		
	Stop Bit	1 or 2		
	Parity	Even / Odd / None		
	Setting	Setting by XG-PD parameter		
Synchronous	Asynchronous			
Speed (bps)	1,200/2,400/4,800/9,600/19,200/38,400/57,600/115,200 bps			
Station number	Setting by XG-PD, Max. 32 stations			
Distance	RS-232C: Max.15m (Expansion by MODEM), RS-422/485: Max 500m			
MODEM communication	-	Support	-	-
Network	1 : 1		1 : N	
Diagnostic	Via LED and XG-PD			
Max. expansion	Built-in	2 stages	Built-in	2 stages

RAPINet (XBL-EIMT)



Item	XBL- EIMT	
Transmission standard	Transmission speed	100Mbps
	Transmission method	Base band
	Max. extension distance between nodes	100m
	Max. number of nodes	64
	Max. protocol size	1,516 bytes
	Access method to service zone	CSMA / CD
	Frame error check	$CRC\ 32 = X^{32} + X^{26} + X^{23} + \dots + X^2 + X + 1$
Basic standard	Normal communication guarantee	Max. 1,200 (packet/sec)
	Dimension (mm)	90(H) x 27(W) x 60(D)
	Current consumption (mA)	290
	Weight (g)	102

Ethernet/IP (XBL-EIPT)



Item		XBL- EIPT
Transmission standard	Transmission speed	100Mbps
	Transmission method	Base band
	Max. extension distance between nodes	100m
	Access method to service zone	CSMA/CD
	Frame error check	$CRC\ 32 = X^{32} + X^{26} + X^{23} + \dots + X^2 + X + 1$
Topology		Line, Star
The number of connections (Client/Server)	TCP	16 / 32
	CIP (IO communication)	32 / 64
Number of Max. services (P2P)		2
Number of Max. installations		2
Max. setting data size per block	Periodic client	500 bytes
	Aperiodic client	512 bytes
Basic standard	Dimension (mm)	90(H) x 27(W) x 60(D)
	Current consumption (mA)	290
	Weight (g)	102

Profibus-DP Module
(XBL-PMEC, XBL-PSEA)



Item		XBL-PMEC	XBL-PSEA
Module Type		Slave	
Network Type		Profibus-DP	
Standard		EN501170/DIN19245	
Interface		RS-485 (Electric)	
Topology		Bus type	
Modulation Type		NRZ (Non Return to Zero)	
Protocol		Profibus DP-V0	
Max. Distance & Transmission Speed	Distance (m)	Send Speed (bps)	
	1,200	9.6k/19.2k/93.75k/187.5k	
	400	500k	
	200	1.5M	
100	3M/6M/12M		
Max. number of stations per segment		32 (including master & repeater)	
Cable used		Electric-twist shielded pair cable	
Max. Communication size		Input : 122 Word Output : 122 Word	
Max. Communication size per block		Input : 64 Word Output : 64 Word	
Communication Transmission cycle		10/20/50/100/200/500ms, 1/5/10s	
Communication Receive cycle		Main unit scan × 2 + Data receive time + Communication module scan	
Max. number of units installed		2 units	
Communication Parameters to set		XG5000 (setting station and high-speed link parameter block)	
Internal-consumed current (mA)		300	250
Weight (g)		86 (including connector: 122)	