FATEK
The Brand You Can Rely on!

On PLC Expansion Module Specifications

General Communication Boards/Modules





Specification \ Model	FBs-CB2	FBs-CB22	FBs-CB5	FBs-CB55	FBs-CB25
RS232 Port	1 port (Port2)	2 ports (Port1, Port 2)	—	—	1 port (Port1)
RS485 Port	—	—	1 port (Port2)	2 ports (Port1, Port 2)	1 port (Port2)
Indicators	Each Port has its own TX, RX LED indicators				
Wiring mechanism	DB9F	DB9F	3 pins spring terminal		DB9F, 3 pins spring terminal
Installation position	Expansion slot of main unit				

Left Side Expansion Module Specifications

Ethernet Communication Boards/Modules




Specification \ Model	FBs-CBEH	FBs-CBE	FBs-CM25E	FBs-CM55E
Network interface	10/100 Base T	10 Base T		
Network protocol	TCP/UDP/IP, ICMP, ARP			
Application protocol	FATEK client and server mode, Modbus-TCP client or server mode	FATEK client and server mode, Modbus-TCP server mode		
PLC interface	Port1, Port2		Port4	
PLC communication speed	307.2 Kbps	115.2 Kbps	9.6K / 19.2K / 38.4K / 57.6K / 115.2Kbps / 230.4Kbps	
Expansion communication interface	N/A		RS232 (Port3), RS485 (Port4)	RS485 (Port3, Port4)
Application IP port number	FATEK port number 500, Modbus-TCP 502 or customized			
Security protection	IP based access control			
Indicators	Internet RX, TX, LINK LEDs indicators			
Wiring mechanism	RJ-45		DB9F, spring terminal block 4-pin x1, 3-pin x1	Spring terminal block 4-pin x1, 3-pin x1
Dimension (Installation position)	Expansion slot of main unit		Figure 5	

CANopen® Communication Board

Specification \ Model	FBs-CBCAN
Communication standard	CAN 2.0A CANopen
Network topology	3-Phase fieldbus
Communication speed	10K / 20K / 50K / 125K / 250K / 500K / 1Mbps
Maximum number of connection station	127 stations
Method of sending signal	Event or cyclic transmission
Isolation method	Optical (signal) isolation, 500VAC, 1 minute
Number of PDO communication	RXPDO-10, TXPDO-10 total up to 80 registers
Number of SDO channels	Client -1, Server-1
Error control	Heartbeat
Wiring mechanism	3-pin spring terminal block
ID setup method	Same as PLC station number or setup by software
Working mode	Master or slave dual modes
Installation position	Expansion slot of main unit

ZigBee™ Communication Modules


Specification \ Model	FBs-CMZB	FBs-CMZBR
Standards	Based on IEEE 802.15.4 and ZigBee™ standard	
Network topology	Mesh, Star, and Cluster-tree	
Frequency	2.4GHz, Unlicensed ISM Band	
Modulation	QPSK	
Data rate	250 Kbps	
RF channels	16(5MHz)	
Data encryption	AES(option)	
Transmit power	-7~18dBm	
Transmission distance	1200m (LOS)	
Nodes	Maximum 65535	
Communication interface	Port3	—
Power consumption	24VDC, -15%/+20%, 2W	
Dimension	Figure 5	62 x 54 x 29 (mm)

GSM Communication Module

Specification \ Model	FBs-CMGSM
Function	SMS, GPRS, and dial up data transfer (CSD), and etc
Frequencies	850/900/1800/1900MHz
RF power	2W
Communication interface	Port3
Dimension	Figure 5

General Purpose Communication Modules



Specification \ Model	FBs-CM25C	FBs-CM5R	FBs-CM5H
Function	General purpose RS232 to RS485 bi-directional signal converter	General purpose RS485 repeater	General purpose 1 to 3 RS485 HUB
Indicators	Each port has its own independent TX, RX LED indicator		
External power	24VDC, -15%/+20%		
Wiring mechanism	DB9F, 3.81mm European terminal block	3 pins spring terminal block	7.62mm fixed terminal block
Dimension	Figure 5		Figure 4