

# Model List

Item Name	Model	Specifications		
Main Units	B1 Main Units	B1-10M ◇△ - ◎☆	6 points 24VDC digital input (4 points 50KHz, 2 points total 5KHz), 4 points relay output or transistor output (2 points 50KHz), built-in 1-2 communication ports, left side is expandable 0-2 modules, right side is expandable up to 80 I/O points	
		B1-14M ◇△ - ◎☆	8 points 24VDC digital input (4 points 50KHz, 4 points total 5KHz), 6 points relay output or transistor output (2 points 50KHz), built-in 1-2 communication ports, left side is expandable 0-2 modules, right side is expandable up to 80 I/O points	
		B1-20M ◇△ - ◎☆	12 points 24VDC digital input (6 points 50KHz, 6 points total 5KHz), 8 points relay output or transistor output (4 points 50KHz), built-in 1-2 communication ports, left side is expandable 0-2 modules, right side is expandable up to 80 I/O points	
		B1-24M ◇△ - ◎☆	14 points 24VDC digital input (8 points 50KHz, 6 points total 5KHz), 10 points relay output or transistor output (4 points 50KHz), built-in 1-2 communication ports, left side is expandable 0-2 modules, right side is expandable up to 80 I/O points	
		B1-32M ◇△ - ◎☆	20 points 24VDC digital input (8 points 50KHz, 8 points total 5KHz, 4 points low speed), 12 points relay output or transistor output (6 points 50KHz), built-in 1-2 communication ports, left side is expandable 0-2 modules, right side is expandable up to 80 I/O points	
		B1-40M ◇△ - ◎☆	24 points 24VDC digital input (8 points 50KHz, 8 points total 5KHz, 8 points low speed), 16 points relay output or transistor output (6 points 50KHz), built-in 1-2 communication ports, left side is expandable 0-2 modules, right side is expandable up to 80 I/O points	
	B1z Main Units	B1z-10M ◇△ - ◎☆	6 points 24VDC digital input (4 points 50KHz, 2 points total 5KHz), 4 points relay output or transistor output (2 points 50KHz), built-in 1 communication port, both sides are not expandable	
		B1z-14M ◇△ - ◎☆	8 points 24VDC digital input (4 points 50KHz, 4 points total 5KHz), 6 points relay output or transistor output (2 points 50KHz), built-in 1 communication port, both sides are not expandable	
		B1z-20M ◇△ - ◎☆	12 points 24VDC digital input (6 points 50KHz, 6 points total 5KHz), 8 points relay output or transistor output (4 points 50KHz), built-in 1 communication port, both sides are not expandable	
		B1z-24M ◇△ - ◎☆	14 points 24VDC digital input (8 points 50KHz, 6 points total 5KHz), 10 points relay output or transistor output (4 points 50KHz), built-in 1 communication port, both sides are not expandable	
		B1z-32M ◇△ - ◎☆	20 points 24VDC digital input (8 points 50KHz, 8 points total 5KHz, 4 points low speed), 12 points relay output or transistor output (6 points 50KHz), built-in 1 communication port, both sides are not expandable	
		B1z-40M ◇△ - ◎☆	24 points 24VDC digital input (8 points 50KHz, 8 points total 5KHz, 8 points low speed), 16 points relay output or transistor output (6 points 50KHz), built-in 1 communication port, both sides are not expandable	
Right Side Expansion Modules	DIO Expansion Modules	B1-8X ☆	8 points 24VDC digital input	
		B1-8Y ◇☆	8 points relay or transistor output	
		B1-8XY ◇☆	4 points 24VDC digital input, 4 points relay or transistor output	
		B1-16X ☆	16 points 24VDC digital input	
		B1-16Y ◇☆	16 points relay or transistor output	
		B1-16XY ◇☆	8 points 24VDC digital input, 8 points relay or transistor output	
		B1-24XY ◇☆	14 points 24VDC digital input, 10 points relay or transistor output	
		B1-40XY ◇☆	24 points 24VDC digital input, 16 points relay or transistor output	
Left Side Expansion Modules	AIO Modules	B1-L2DA ☆	2 channels, 12-bit analog output module (0-10V or 0-20mA)	
		B1-L4AD ☆	4 channels, 12-bit analog input module (0-10V or 0-20mA)	
		B1-L2A2D ☆	2 channels, 12-bit analog input + 2 channels, 12-bit analog output combo analog module (0-10V or 0-20mA)	
		B1-L4NTC ☆	4 channels, NTC temperature input module, 12-bit resolution, measuring range 100Ω-100KΩ	
	Communication Modules	B1-CM2 ☆	1 port RS232 (Port 2) communication module	
		B1-CM5 ☆	1 port RS485 (Port 2) communication module	
		B1-CM22 ☆	2 ports RS232 communication module	
		B1-CM55 ☆	2 ports RS485 communication module	
		B1-CM25 ☆	1 port RS232 (Port1) + 1 port RS485 (Port2) communication module	
		B1-CM25E	1 port RS232 (Port1) + 1 port RS485 (Port2) + Ethernet network interface communication module	
		B1-CM55E	2 ports RS485 (Port1, Port2) + Ethernet network interface communication module	
		B1-CMZB ☆	ZigBee communication module	
	FBs Compatible Peripheral	Memory Pack	FBs-PACK	B1/B1z/FBs-PLC program memory pack with 20K Words program, 20K Words register, write protection switch
		PWMDA Module	PWMDA	10-bit single channel pulse width modulation (PWM) 0-10V analog output (AO) module
Programming Devices		FP-08	B1/B1z/FBs-Series PLC handheld programmer	
		Winproladder	FATEK-PLC Winproladder programming software	
RFID Card		CARD-H	Read/Write RFID card (for FBs-DAP-BR/CR and FBs-PEPR)	
Simple HMI		FBs-PEP/PEPR	Multi-characters with graphics-based Parameter Entry Panel, built-in RFID Read/Write module with PEPR	
		FBs-DAP-B/BR*	16 x 2 LCD character display, 20 keys keyboard, 24VDC power supply, RS485 comm. port, built-in RFID Read/Write module with BR	
		FBs-DAP-C/CR*	16 x 2 LCD character display, 20 keys keyboard, 5VDC power supply, RS232 comm. port, built-in RFID Read/Write module with CR	
General Purpose Communication Converters		FBs-CM25C	General purpose RS232 to RS485/RS422 communication interface converter with optical isolation	
		FBs-CM5R	General purpose RS485 repeater with optical isolation	
		FBs-CM5H	General purpose 4 ports RS485 HUB with optical isolation, RS485 can be connected as star connection	
		FBs-CMZBR	ZigBee communication repeater	
		FBs-U2C-MD-180	Communication converter cable with standard USB AM connector to RS232 Mini-DIN 4M connector (used in standard PC USB to FBs main unit Port0 RS232), length 180cm	
Communication Cables		FBs-232P0-9F-150	Mini-DIN 4M to DB9F communication cable (FBs main unit Port 0 RS232 connect to standard DB9M), length 150cm	
		FBs-232P0-9M-400	Mini-DIN 4M to DB9M communication cable (FBs main unit Port 0 RS232 connect to standard DB9F), length 400cm	
		FBs-232P0-MD-200	Mini-DIN 4M to Mini-DIN 4M communication cable (FBs main unit Port 0 RS232 connect to FBs-PEP/PEPR), length 200cm	
	FBs-232P0-MDR-200	Mini-DIN 4M to 90° Mini-DIN 4M communication cable (FBs main unit Port0 RS232 connect to FBs-PEP/PEPR), length 200cm		

1. ◇ : R – Relay output, T. – Transistor SINK (NPN) output, J. – SOURCE (PNP) output

2. △ : 2 – built-in 1 RS232 communication port, } left side of B1 main units can expand 1 analog module + 1 communication module (1 port) or 1 communication module (1 or 2 ports)  
 U – built-in 1 USB communication port, (special order)  
 25 – built-in 2 communication ports (RS232 + RS485), only B1 main units provided, and left side is not expandable

3. ◎ : AC – 100-240VAC power supply, D12 – 12VDC power supply, D24 – 24VDC power supply

4. ☆ : Blank – Standard case, -S – Slim case (units with AC power supply has no slim case)

\*: FBs-DAP cannot apply to B1z units

