

Digital I/O Modules

CC-Link Remote I/O: Screw Terminal Block Type

- AJ65BTB_-_ equipped with removable terminal blocks
- AJ65SBTB_-_ offer most efficient use of panel space

• Certifications: UL • cUL • CE

Input Modules

Model Number	AJ65SBTB2N-8A	AJ65SBTB2N-16A	AJ65SBTB1-8D	AJ65SBTB1-16D	AJ65SBTB1-16D1	AJ65SBTB1-32D	AJ65SBTB1-32D1	AJ65SBTB1-32D5
Input Type	AC input		DC input; +COM/-COM common type					
Stocked Item	-	S	S	S	S	S	S	-
Number of Input Points	8	16	8	16	16	32	32	32
Rated Input Voltage	100 to 120VAC		24VDC					
External Connection Wire Type	Two wire type		One wire type					
Common Connection	8 points 1 common	16 points 1 common	8 points 1 common	16 points 1 common		32 points 1 common		
Internal Current Consumption	35mA	40mA	30mA	35mA	40mA	45mA	50mA	35mA
Dimensions (W x H x D) mm	118 x 50 x 40	179 x 50 x 40	87.3 x 50 x 40	118 x 50 x 40		179 x 50 x 40		

Model Number	AJ65SBTB3-8D	AJ65SBTB3-16D	AJ65SBTB1-16D	AJ65SBTB2-16D	AJ65SBTB3-16D5	AJ65SBTB3-16KD	AJ65SBTB1-32KD
Input Type	DC input: +COM/-COM common type						
Stocked Item	-	-	S	S	-	-	-
Number of Input Points	8	16	16	16	16	16	32
Rated Input Voltage	24VDC				5VDC	24VDC	
External Connection Wire Type	Three wire type		One wire type	Two wire type	Three wire type		One wire type
Common Connection	8 points 1 common	16 points 1 common					32 points 1 common
Internal Current Consumption	40mA	45mA	60mA	60mA	30mA	50mA	75mA
Dimensions (W x H x D) mm	118 x 50 x 40	179 x 50 x 40	151.9 x 65 x 46	197.4 x 65 x 46	179 x 50 x 40		

Output Modules

Model Number	AJ65SBTB1-8T		AJ65SBTB1-8T1	AJ65SBTB1-16T	AJ65SBTB1-32T	AJ65SBTB1-16T1	AJ65SBTB1-32T1
Output Type	Transistor output; Sink type						
Stocked Item	-		-	S	S	S	S
Number of Output Points	8		8	16	32	16	32
Rated Load Voltage	12/24VDC						
Max. Load Current	1 Point	0.5A					
	1 Common	2.4A		3.6A	4.8A	3.6A	4.8A
External Connection Wire Type	One wire type						
Common Connection	8 points 1 common			16 points 1 common	32 points 1 common	16 points 1 common	32 points 1 common
Internal Current Consumption	35mA		35mA	50mA	65mA	50mA	65mA
Dimensions (W x H x D) mm	87.3 x 50 x 40			118 x 50 x 40	179 x 50 x 40	118 x 50 x 40	179 x 50 x 40

Model Number	AJ65SBTB1-8TE	AJ65SBTB1-16TE	AJ65SBTB2-8T	AJ65SBTB2-16T	AJ65SBTB2-8T1	AJ65SBTB2-16T1	AJ65SBTB1B-16TE1	AJ65SBTB1-32TE1
Output Type	Transistor output; Source type		Transistor output; Sink type				Transistor output; Source type	
Stocked Item	-	S	-	-	-	-	-	-
Number of Output Points	8	16	8	16	8	16	16	32
Rated Load Voltage	12/24VDC							
Max. Load Current	1 Point 0.1A	0.5A						
	1 Common 0.8A	1.6A	2.4A	3.6A	2.4A	3.6A	4A	4.8A
External Connection Wire Type	One wire type		Two wire type				One wire type	
Common Connection	8 points 1 common	16 points 1 common	8 points 1 common	16 points 1 common	8 points 1 common	16 points 1 common	8 points 1 common	32 points 1 common
Internal Current Consumption	35mA	50mA	45mA	55mA	45mA	55mA	45mA	60mA
Dimensions (W x H x D) mm	87.3 x 50 x 40	118 x 50 x 40		179 x 50 x 40	118 x 50 x 40	179 x 50 x 40		

Model Number	AJ65SBTB2N-8R	AJ65SBTB2N-16R	AJ65SBTB2N-8S	AJ65SBTB2N-16S	AJ65SBTB1-16T	AJ65SBTB2-16R	AJ65SBTB2-16T
Output Type	Relay output		Triac output		Trans. output (sink)	Relay output	Trans. output (sink)
Stocked Item	S	S	-	-	S	S	-
Number of Output Points	8	16	8	16	16	16	16
Rated Load Voltage	24VDC/240VAC		100 to 240VAC		12/24VDC	24VDC/240VAC	12/24VDC
Max. Load	1 Point	2A	0.6A	0.5A	2A	0.5A	
Current	1 Common	4A	8A	2.4A	4.8A	4A	8A
External Connection Wire Type	Two wire type				One wire type	Two wire type	
Common Connection	8 points 1 common	16 points 1 common	8 points 1 common	32 points 1 common	8 points 1 common	8 points 1 common	8 points 1 common
Internal Current Consumption	85mA	120mA	55mA	85mA	80mA	85mA	80mA
Dimensions (W x H x D) mm	118 x 50 x 40	179 x 50 x 40	118 x 50 x 40	179 x 50 x 40	151.9 x 65 x 46	197.4 x 65 x 46	

Combined I/O Modules

Model Number	AJ65SBTB32-8DT	AJ65SBTB32-8DT2	AJ65SBTB1-16DT	AJ65SBTB1-16DT1	AJ65SBTB1-16DT2	AJ65SBTB1-16DT3	AJ65SBTB32-16DT
I/O Type	DC input/trans output / +COM type/sink type						
Stocked Item	-	-	S	-	-	-	-
Certification	UL • cUL • CE						
Number of I/O Points	4 / 4		8 / 8				
Input/Load Voltage	24VDC / 24VDC						
Max. Load	1 Point	0.5A					
Current	1 Common	1.2A	2.4A				
Connection Wire Type on Input/Output Sides	Three wire type / Two wire type	Two wire type / Two wire type		One wire type / One wire type		Two wire type / Two wire type	Three wire type / Two wire type
Common Connection	8 points 1 common		16 points 1 common				8 points 1 common
Internal Current Consumption	45mA		50mA	55mA	50mA	55mA	50mA
Dimensions (W x H x D) mm	118 x 50 x 40		118 x 50 x 40				179 x 50 x 40

Model Number	AJ65SBTB32-16DT2		AJ65SBTB32-16DR	AJ65SBTB32-16KDT2	AJ65SBTB32-16KDT8	AJ65SBTB32-16KDR	AJ65SBTB1-32DT	AJ65SBTB1-32DT1
I/O Type	DC input/trans output / +COM type/sink type							
Stocked Item	-	-	-	-	-	S	-	
Certification	UL • cUL • CE							
Number of I/O Points	8 / 8						16 / 16	
Input/Load Voltage	24VDC / 24VDC			24VDC / 24VDC	12VDC / 12VDC	24VDC / 24VDC	24VDC / 24VDC	
Max. Load	1 Point	0.5A			2A		0.5A	
Current	1 Common	1.2A		2.4A	4A / common		3.6A	
Connection Wire Type on Input/Output Sides	Three wire type / Two wire type					Two wire type / Two wire type	One wire type / One wire type	
Common Connection	8 points 1 common			16 points 1 common		8 points 1 common		
Internal Current Consumption	50mA	85mA		55mA	55mA	100mA	60mA	
Dimensions (W x H x D) mm	179 x 50 x 40							

Model Number		AJ65SBTB1-32DT2	AJ65SBTB1-32DT3	AJ65SBTB1-32TE1	AJ65SBTB1-32KDT2	AJ65SBTB1-32KDT8	AJ65SBTB1-16DT	AJ65BTB2-16DT	AJ65BTB2-16DR
I/O Type		DC input/trans output / +COM type/sink type			DC input/trans output / +COM type/sink type				DC input/relay output / +COM/-COM common type/-
Stocked Item		-	-	-	-	-	-	-	S
Certification		UL • cUL • CE							
Number of I/O Points		16 / 16		32 / 32	16 / 16		8 / 8		
Input/Load Voltage		24VDC / 24VDC		12VDC / 24VDC	24VDC / 24VDC	12VDC / 12VDC	24VDC / 12/24VDC		24VDC / 240VAC
Max. Load	1 Point	0.5A							2A
Current	1 Common	3.6A		4.8A	3.6A		4A		8A
Connection Wire Type on Input/Output Sides		One wire type / One wire type						Two wire type / Two wire type	
Common Connection		32 points 1 common		32 points 1 common			8 points 1 common		
Internal Current Consumption		60mA		15mA	65mA	15mA	70mA		
Dimensions (W x H x D) mm		179 x 50 x 40					151.9 x 65 x 46	197.4 x 65 x 46	

CC-Link Remote I/O: One-Touch Connector Type

One touch IDC type connector offers labor and material cost savings; No stripping of cable or lugs required

Input Modules

Model Number	AJ65SBTC1-32D	AJ65SBTC1-32D1	AJ65SBTC4-16DN	AJ65VBTCU3-8D1	AJ65VBTCU3-16D1	AJ65SBTC4-16DE
Input Type	DC input / +COM/-COM common type			DC input / +COM type		DC input / -COM type
Stocked Item	S	-	S	-	-	-
Certification	UL • cUL • CE					
Number of Input Points	32		16	8	16	16
Rated Input Voltage	24VDC					
External Connection Wire Type	One wire type		Four wire type	Three wire type		Four wire type
Common Connection	32 points 1 common		16 points 1 common	8 points 1 common	16 points 1 common	
Internal Current Consumption	45mA		35mA		40mA	35 mA
Dimensions (W x H x D) mm	118 x 50 x 40			41 x 115 x 93	60 x 115 x 93	118 x 50 x 40

Output Modules

Model Number	AJ65SBTC1-32T	AJ65SBTC1-32T1	AJ65VBTCU2-8T	AJ65VBTCU2-16T
Output Type	Transistor output / Sink type			
Stocked Item	-	-	-	-
Certifications	UL • cUL • CE			
Number of Output Points	32		8	16
Rated Load Voltage	12/24VDC			
Max. Load 1 Point	0.1A			
Current 1 Common	3.2A		0.8A	1.6A
External Connection Wire Type	One wire type		Two wire type	
Common Connection	32 points 1 common		8 points 1 common	16 points 1 common
Internal Current Consumption	60mA		35mA	40mA
Dimensions (W x H x D) mm	118 x 50 x 40		41 x 115 x 93	60 x 115 x 93

Combined I/O Modules

Model Number	AJ65SBTC4-16DT	AJ65SBTC4-16DT2	AJ65SBTC1-32DT	AJ65SBTC1-32DT1	AJ65SBTC1-32DT2	AJ65SBTC1-32DT3
I/O Type	DC input/trans output / +COM type/sink type					
Stocked Item	-	-	-	-	-	-
Certification	UL • cUL • CE					
Number of I/O Points	8 / 8		16 / 16			
Rated Input / Load Voltage	24VDC / 24VDC					
Max. Load Current	1 Point	0.5A	0.1A			
	1 Common	2.4A	1.6A			
Leakage Current	0.25mA max.	0.1mA max.	0.25mA max.		0.1mA max.	
External Connection Wire Type	Four wire type / Four wire type		One wire type / One wire type			
Common Connection	16 points 1 common		32 points 1 common			
Internal Current Consumption	40mA		50mA			
Dimensions (W x H x D) mm	118 x 50 x 40					

CC-Link Remote I/O: Embedded I/O Adapters

Intended for OEM System Designers needing to embed a CC-Link network connection inside their own products

Model Number	Input Adapter		Output Adapter		I/O Combination Adapter
	AJ65MBTL1N-16D	AJ65MBTL1N-32D	AJ65MBTL1N-16T	AJ65MBTL1N-32T	AJ65MBTL1N-16DT
Stocked Item	-	-	-	-	-
Certification	UL • cUL • CE				
Input/Output Type	DC Input +COM type	DC input +COM type	Transistor output Sink type	Transistor output Sink type	DC input / Transistor output +COM type / Sink type
Number of Input/Output Points	16	32	16	32	8 / 8
Rated Input / Load Voltage	24VDC		12/24VDC		24VDC / 24VDC
Max. Load 1 Point	-	-	0.1A		± 0.1mA
Current 1 Common	-	-	1.6A	3.2A	
Leakage Current	-	-	0.1mA		± 0.1mA
External Connection Wire Type	44 pins (2 rows)	62 pins (2 rows)	44 pins (2 rows)	62 pins (2 rows)	
Common Connection	16 points 1 common	32 points 1 common	16 points 1 common	32 points 1 common	16 points 1 common
Current Consumption	35mA	45mA	50mA	60mA	50mA
Dimensions W x H x D (mm)	53 x 22 x 31.5	85 x 22 x 31.5	53 x 22 x 31.5	85 x 22 x 31.5	53 x 22 x 31.5

CC-Link Remote I/O: Water Resistant Connector Type (IP67)

"F Type" modules can be replaced without disrupting the network offer built-in terminating resistors, 55°C operating temperature

Model Number	Input Module		Output Module		I/O Module	
	AJ65FBTA4-16D	AJ65FBTA4-16DE	AJ65FBTA2-16T	AJ65FBTA2-16TE	AJ65FBTA42-16DT	AJ65FBTA42-16DTE
Stocked Item	S	-	-	-	-	-
Certification	UL • cUL • CE					
Input/Output Type	DC Input	DC input	Transistor output	Transistor output	DC input / Transistor output	DC input / Transistor output
	+COM: Positive common (Sink)	-COM: Negative common (Source)	Sink type	Source type	+COM: Positive common (Sink) / sink type	-COM: Negative common (Source) / source type
Number of Input/Output Points	16	16	16	16	8 / 8	8 / 8
Rated Input / Load Voltage	24VDC		12/24VDC		24VDC / 24VDC	
Max. Load	1 Point	-	0.5A	1.0A	0.5A	1.0A
Current	1 Common	-	4.0A	4.0A	2.4A	4.0A
External Connection Wire Type	Four wire type		Two wire type		Four wire type / two wire type	
Common Connection	16 points 1 common		16 points 1 common		8 points 1 common / 8 points 1 common	16 points 1 common / 16 points 1 common
Current Consumption	40mA	40mA	50mA	50mA	50mA	45mA
Dimensions W x H x D (mm)	60 x 200 x 48 (including communication adapter)		60 x 200 x 48 (including communication adapter)			

CC-Link Remote I/O: FCN Connector Type

- All I/O wiring terminates in a single 40 pin connector
- Connectors available separately to facilitate wiring harness construction

Input Modules

Model Number	AJ65SBTCF1-32D	AJ65BTC1-32D
Input Type	DC input (sink/source common type)	DC input (sink, source type)
Stocked Item	-	-
Certification	UL • cUL • CE	
Number of Input Points	32	
Rated Input Voltage	24VDC	
External Connection Wire Type	One wire type	
Common Connection	32 points / 1 common	
Internal Current Consumption	45mA	70mA
Dimensions (W x H x D) mm	118 x 50 x 40	118 x 50 x 40

Output Modules

Model Number	AJ65SBTCF1-32T	AJ65BTC1-32T
Output Type	Transistor output / Sink type	
Stocked Item	-	-
Certification	UL • cUL • CE	
Number of Output Points	32	
Rated Load Voltage	12/24VDC	
Max. Load	1 Point	0.1A
Current	1 Common	3.2A
External Connection Wire Type	One wire type	
Common Connection	32 points / 1 common	
Internal Current Consumption	60mA	115mA
Dimensions (W x H x D) mm	118 x 50 x 40	165 x 65 x 46

Combined I/O Modules

Model Number	AJ65SBTCF1-32DT	AJ65VBTCF1-32DT1	AJ65VBTCF1-32DT1
I/O Type	DC input (Sink / Source type) Transistor output (Sink)		DC input (Sink) / Transistor output (Sink)
Stocked Item	-	-	-
Certification	UL • cUL • CE		
Number of I/O Points	16 / 16		
Rated Voltage	Input	24VDC	
	Load	12/24VDC	
Max. Load	1 Point	0.1A	
Current	1 Common	1.6A	
External Connection Wire Type on Input/Output Sides	One wire type		
Common Connection	16 points / 1 common		32 point / 1 common
Internal Current Consumption	50mA		
Dimensions (W x H x D) mm	118 x 50 x 40	41 x 115 x 113	41 x 115 x 63.5

CC-Link Remote I/O: Spring Clamp and e-CON Type

The e-CON terminals use the same I/O connection type as the existing CC-Link/LT I/O blocks

Input Modules

Model Number	AJ65VBTS3-16D	AJ65VBTS3-32D	AJ65VBTC3-8D	AJ65VBTC3-16D	AJ65VBTC3-16DE	AJ65VBTC3-32DE
Input Type	DC input / +COM/Sink		DC input / +COM/Sink		DC input / -COM/Source	
Stocked Item	-	-	-	-	-	-
Certification	UL • cUL • CE					
Number of Input Points	16	32	8	16	16	32
Rated Input Voltage	24VDC					
External Connection Wire Type	Three wire type					
Common Connection	16 points / 1 common		8 points / 1 common		16 points / common	32 points / common
Wire Gauge Size	AWG 28 to 16		-	-	-	-
Internal Current Consumption	35mA	40mA	30mA	35mA	35mA	40mA
Dimensions (W x H x D) mm	137 x 50 x 51.5	222 x 50 x 51.5	40 x 100 x 40.5	114 x 50 x 41.5	100 x 50 x 41.5	155 x 50 x 41.5

Output Modules

Model Number	AJ65VBTS2-16T		AJ65VBTS2-32T	AJ65VBTC2-8T
Output Type	Transistor / Sink			Transistor / Sink
Stocked Item	-		-	-
Certification	UL • cUL • CE			
Number of Output Points	16		32	8
Rated Load Voltage	12/24VDC			
Max. Load Current	1 Point	0.5A		0.1A
	1 Common	4A		0.8A
External Connection Wire Type	Two wire type			
Common Connection	16 points / 1 common			8 points / 1 common
Wire Gauge Size	AWG 28 to 16			-
Internal Current Consumption	45mA		60mA	35mA
Dimensions (W x H x D) mm	137 x 50 x 51.5		222 x 50 x 51.5	40 x 100 x 40.5

Combined I/O Modules

Model Number		AJ65VBTS32-16DT	AJ65VBTS32-32DT	AJ65VBTC32-16DT
I/O Type		DC input/trans output / +COM/sink		
Stocked Item		-	-	-
Certification		UL • cUL • CE		
Number of I/O Points		8/8	16/16	8/8
Rated Voltage	Input	24VDC		24VDC / 24VDC
	Load	24VDC / 24VDC or 12VDC		
Max. Output	1 Point	0.5A		0.1A
Load Current	1 Common	4A		0.8A
Connection Wire Type on Input/Output Sides		Three wire type / Two wire type		
Common Connection		16 points / 1 common		
Internal Current Consumption		40mA	50mA	40mA
Dimensions (W x H x D) mm		118 x 50 x 40	41 x 115 x 113	114 x 50 x 41.5