

CC-Link/LT Power Supply Adapter

CC-Link/LT requires 24VDC power to be supplied to the network. The two options for doing this are the CL1PAD1 and the CL1PSU-2A. CL1PAD1 allows network power to be derived from a 24VDC supply, whereas the CL1PSU-2A allows a 120VAC supply to be used.

Model Number	CL1PAD1
Stocked Item	-
Certification	UL • cUL
Maximum Input Voltage	28.8VDC
Maximum Input Current	5.0A
Insulation Resistance	10MΩ across input-FG by 500VDC insulation resistance tester
External Connection System	CL1PAD1 to external PSU: screw terminals CL1PAD1 to CC-Link/LT network: CL9-CNF-18 connectors to network cable
Dimensions (W x H x D) mm (in)	66 x 85 x 90 (2.5 x 3.3 x 3.5)

Model Number	CL1PSU-2A	
Stocked Item	-	
Certification	CE	
Input	Rated Voltage	100, 120, 200, 230, and 240VAC
	Rated Current	1.2A / 100V AC 0.7A / 200VAC
	Power Fuse	3.15A
	Inrush Current	Max. 50A / 100V AC Max. 60A / 200
Output	Output Voltage	24VDC +10 % / -5 %
	Output Current	0.01A to 2A Derating occurs according to the ambient temperature and power voltage. [Use the module in a proper range so that the total current consumption of each module does not exceed 2A (except the period immediately after the power is turned on).]
Noise Resistance	By noise simulator of 1000Vp-p in noise voltage, 1μs in noise width, and 25 to 60Hz in frequency	
Dimensions (W x H x D) mm (inch)	90 x 90 x 90 (3.55 x 3.55 x 3.55)	

CC-Link/LT to CC-Link Bridge Module

The AJ65SBT-CLB allows a CC-Link/LT network segment to be connected to a CC-Link network. The module uses the A6CON-L5P and A6CON-LJ5P network connectors.

Model Number	AJ65SBT-CLB			
Stocked Item	-			
CC-Link				
Station Type	Remote device station			
Number of Occupied Stations	Selected between 2, 4 and 8 stations *When 2 stations are selected: 64 points for each of RX/RX (16 points used by the system), 8 words for each of RWr/RWw			
	When 4 stations are selected: 128 points for each of RX/RX (16 points used by the system), 16 words for each of RWr/RWw			
	When 4 stations are selected: 128 points for each of RX/RX (16 points used by the system), 16 words for each of RWr/RWw			
	When 8 stations are selected: 256 points for each of RX/RX (32 points used by the system), 32 words for each of RWr/RWw			
CC-Link/LT				
Number of CC-Link Occupied Stations	2 stations occupied 4 stations occupied 8 stations occupied			
Maximum Number of CC-Link/LT Connected Stations	4-Points Mode	12 stations	28 stations	56 stations
	8-Points Mode	6 stations	14 stations	28 stations
	16-Points Mode	3 stations	7 stations	14 stations
Remote Station Numbers	1 to 56			
Bridge Station Connection Position	Connected at the end of the trunk line			
Dimensions (W x H x D) mm (inch)	87 x 49 x 40 (3.43 x 1.93 x 1.57)			

Note: When 8 stations are occupied make parameter setting so that two 4-station occupying modules are consecutively connected.

CC-Link/LT: Screw Terminal Modules

Input Modules

Model Number	CL1X4-D1B2	CL2X8-D1B2
Stocked Item	-	-
Input Type	DC / +COM/-COM	
Number of Input Points	4	8
Rated Input Voltage	24VDC	
External Connection Wire Type	Two wire	
Common Connection	4 points / common	8 points / common
Internal Current Consumption	40mA	
Dimensions (W x H x D) mm	50 x 49 x 40	64 x 49 x 40

Output Modules

Model Number	CL1Y4-T1B2	CL1Y4-R1B2	CL1Y4-R1B1	CL2Y8-TP1B2
Stocked Item	-	-	-	-
Output Type	Transistor / Sink	Relay	Relay	Transistor / Sink
Number of Output Points	4	4	4	8
Rated Load Voltage	12/24VDC	250VAC/30VDC	250VAC/30VDC	12/24VDC
Maximum Load Current	1 Point	2A	2A	0.1A
	1 Common	0.4A	4A	0.8A
External Connection Wire Type	Two wire	Two wire	One wire	Two wire
Common Connection	4 points / common	4 points / common	1 point / common	8 points / common
Internal Current Consumption	60mA	65mA	65mA	40mA
Dimensions (W x H x D) mm	50 x 49 x 40	80 x 49 x 40	80 x 49 x 40	64 x 49 x 40

I/O Modules

Model Number	CL1XY4-DT1B2	CL1XY4-DR1B2	CL1XY8-DT1B2	CL1XY8-DR1B2
Stocked Item	-	-	-	-
I/O Type	DC Input/Transistor Output / +COM/-COM/sink	DC Input/Relay Output / +COM /-COM	DC Input/Transistor Output / +COM/-COM/sink	DC input / relay output
Number of I/O Points	2 / 2	2 / 2	4 / 4	4 / 4
Input/Load Voltage	24VDC / 24VDC and 12VDC	24VDC / 250VAC and 30VDC	24VDC / 24VDC and 12VDC	24VDC / 250VAC and 30VDC
Maximum Output Load Current	1 Point	2A	0.1A	2A
	1 Common	0.4A	4A	4A
Leakage Current	0.1mA	N/A	0.1mA	N/A
Connection Wire Type on Input / Output Sides	Two wire / two wire			
Common Connection	2 points/common; 2 points/common	2 points/common; 2 points/common	4 points/common; 4 points/common	4 points/common; 4 points/common
Internal Current Consumption	55mA	60mA	65mA	70mA
Dimensions (W x H x D) mm	80 x 49 x 40			

CC-Link/LT: Spring Clamp Modules

Input Modules

Model Number	CL1X4-D1S2	CL2X8-D1S2
Stocked Item	-	-
Input Type	DC / +COM/-COM	
Number of Input Points	4	8
Rated Input Voltage	24VDC	
External Connection Wire Type	Two wire	
Common Connection	4 points / common	8 points / common
Internal Current Consumption	40mA	
Dimensions (W x H x D) mm	69 x 49 x 40	

Output Modules

Model Number	CL1Y4-T1S2	CL2Y8-TP1S2
Stocked Item	-	-
Output Type	Transistor / Sink	
Number of Output Points	4	8
Rated Load Voltage	12/24VDC	
Maximum Load Current	1 Point	0.1A
	1 Common	0.4A
Leakage Current	0.1mA	
External Connection Wire Type	Two wire	
Common Connection	4 points / common	8 points / common
Internal Current Consumption	60mA	40mA
Dimensions (W x H x D) mm	69 x 49 x 40	

CC-Link/LT: e-CON (Sensor Connector Modules)

Input Modules

Model Number	CL1X4-D1C3	CL2X8-D1C3V	CL2X16-D1C3V
Stocked Item	-	-	-
Input Type	DC / +COM		
Number of Input Points	4	8	16
Rated Input Voltage	24VDC		
External Connection Wire Type	Two wire/three wire		
Common Connection	4 points / common	8 points / common	16 points / common
Internal Current Consumption	35mA	40mA	45mA
Dimensions (W x H x D) mm	69 x 49 x 23.6	24 x 85 x 39	48 x 85 x 39

Output Modules

Model Number	CL1Y4-T1C2	CL2Y8-TP1C2V	CL2Y16-TP1C2V
Stocked Item	-	-	-
Output Type	Transistor / Sink		
Number of Output Points	4	8	16
Rated Load Voltage	24VDC		
Maximum Load Current	1 Point 0.1A	0.1A	0.1A
	1 Common 0.4A	0.8A	1.6A
Leakage Current	0.1mA		
External Connection Wire Type	Three wire	Two wire	Two wire
Common Connection	4 points / common	8 points / common	16 points / common
Internal Current Consumption	60mA	55mA	55mA
Dimensions (W x H x D) mm	69 x 49 x 23.6	24 x 85 x 39	48 x 85 x 39

I/O Modules

Model Number	CL2XY16-DTP1C5V
Stocked Item	S
I/O Type	DC input/transistor output / +COM/sink
Number of I/O Points	8 / 8
Input/Load Voltage	24VDC / 24VDC
Maximum Output Load Current	1 Point 0.1A
	1 Common 0.8A
Leakage Current	0.1mA
Connection Wire Type on Input / Output Sides	Two wire or three wire / two wire
Common Connection	8 points/common; 8 points/common
Internal Current Consumption	50mA
Dimensions (W x H x D) mm	48 x 85 x 39

CC-Link/LT: MIL Connector Modules

Input Modules

Model Number	CL2X16-D1M1V
Stocked Item	-
Input Type	DC / +COM
Number of Input Points	16
Rated Input Voltage	24VDC
External Connection Wire Type	One wire
Common Connection	16 points / common
Internal Current Consumption	45mA
Dimensions (W x H x D) mm	24 x 85 x 39

Output Modules

Model Number	CL2Y16-TP1M1V	CL2Y16-TPE1M1V	CL2Y16-TP1MJ1V
Stocked Item	-	-	-
Output Type	Transistor / sink	Transistor / source	Transistor / sink
Number of Output Points	16		
Rated Load Voltage	12/24VDC		
Maximum Load Current	1 Point 0.1A		
	1 Common 1.6A		
Leakage Current	0.1mA		
External Connection Wire Type	One wire		
Common Connection	16 points / common		
Internal Current Consumption	50mA	55mA	
Dimensions (W x H x D) mm	24 x 85 x 39		

CC-Link/LT: Cable Type Modules

Input Modules

Model Number	CL1X2-D1D3S
Stocked Item	-
Input Type	DC / +COM
Number of Input Points	2
Rated Input Voltage	24VDC
External Connection Wire Type	Three wire
Common Connection	2 points / common
Internal Current Consumption	40mA
Dimensions (W x H x D) mm	20 x 65 x 12

Output Modules

Model Number	CL1Y2-T1D2S	
Stocked Item	-	
Output Type	Transistor / sink	
Number of Output Points	2	
Rated Load Voltage	24VDC	
Maximum Load Current	1 Point	0.1A
	1 Common	0.2A
Output Response Time	OFF – ON	1.0 ms
	ON – OFF	1.0 ms
Leakage Current	0.1mA	
External Connection Wire Type	Two wire	
Common Connection	2 points / common	
Internal Current Consumption	40mA	
Dimensions (W x H x D) mm	20 x 65 x 12	

I/O Modules

Model Number	CL1XY2-DT1D5S	
Stocked Item	-	
I/O Type	DC input/transistor / +COM/sink	
Number of I/O Points	1 / 1	
Input/Load Voltage	24VDC / 24VDC	
Maximum Output Load Current	1 Point	0.1A
	1 Common	0.1A
Leakage Current	0.1mA	
Connection Wire Type on Input / Output Sides	Three wire / two wire	
Common Connection	1 point/common; 1 point/common	
Internal Current Consumption	40mA	
Dimensions (W x H x D) mm	20 x 65 x 12	

CC-Link/LT: CL2AD4-B Analog-Digital Converter Module

Model Number	CL2AD4-B						
Stocked Item	-						
Analog Input	Voltage	-10 to 10VDC (input resistance 1MΩ)					
	Current	0 to 20mADC (input resistance 250Ω)					
Digital Output	15-bit signed binary (-4096 to 4095)						
I/O Characteristics, Maximum Resolution, Accuracy (Accuracy Relative To Maximum Value of Digital Output Value)	Voltage	-10 to 10V	-4000 to 4000	± 0.2% (±8 digit) (*2)	±4% (±8 digit) (*2)	±80ppm / °C (±0.0080% / °C)	Max. Resolution
		0 to 10V					2.5mV
		0 to 5V					1.25mV
	Current	1 to 5V	0 to 4000	± 0.2% (±8 digit) (*2)	±4% (±8 digit) (*2)	±80ppm / °C (±0.0080% / °C)	1.0mV
		0 to 20mA					5μA
		4 to 20mA					4μA
Conversion Speed	200μs / 4 channel (*4)						
Absolute Maximum Output	Voltage: ±15V, current: ±30mA						
Analog Output	4 channels / 1 module						
CC-Link/LT Station Type	Remote device station						
Number of Occupied Stations	16 point mode with four occupied stations (*5)						
Isolation	Specific Isolated Area		Isolation System		Dielectric Withstand Voltage	Insulation Resistance	
	Between communication system terminals and all analog input terminals		Photocoupler isolated		1 min. duration of 500VAC	500VDC 10MΩ or more	
	Between power supply system terminals and all analog input terminals		Transformer isolated				
	Between communication system terminals and power supply system terminals		Non-isolated		-	-	
Across channels		Non-isolated		-	-		
Connected Terminal Block	Direct-coupled, 14-point terminal block (M3 screw)						
Applicable Wire Size	0.3 to 1.25mm ²						
Applicable Crimping Terminal	RAV1.25-3 (conforming to JIS C2805), V1.25-3 (manufactured by JST Mfg. CO., Ltd.), 1.25-3, TG1.25-3 (manufactured by NICHIFU CO., Ltd.)						
Module Power Supply (*6)	Voltage	24VDC (20.4VDC to 28.8VDC, ripple ratio: within 5%)					
	Current Consumption	0.070A					
	Start Up Current	0.570A					
Protection Degree	IP2X						
Weight (kg)	0.15						
Dimensions (W x H x D) mm	69 x 49 x 40						

Notes:

- Standard accuracy
- Digital indicates the digital output value
- Accuracy for each 1°C temperature change
- The conversion speed of the first order lag filter channel is 400μs when a first order lag filter is used.
- The number of I/O occupied points (occupied station count) differs depending on the final channel permitted for conversion.
- A dedicated power supply/supply adaptor is used to supply power.

CC-Link/LT: Digital-Analog Converter Module

Model Number		CL2DA2-B							
Stocked Item		-							
Digital Resolution	Voltage	12-bit signed binary (-4096 to 4095)							
	Current	12-bit signed binary (-96 to 4095)							
Analog Output	Voltage	-10 to 10VDC (external load resistance: 1kΩ to 1MΩ)							
	Current	0 to 20mADC (external load resistance: 0 to 600Ω)							
I/O Characteristics, Maximum Resolution, Accuracy (Accuracy Relative To Maximum Value of Digital Output Value)		Accuracy				Max. Resolution			
			Analog Output Range	Digital Input Value	Ambient Temp. 25 ±5°C (*1)		Ambient Temp. 0 to 55°C	Temperature Coefficient (*2)	
		Voltage	-10 to 10V	-4000 to 4000	±0.2% (±20mV)		±0.4% (±40mV)	±80ppm /°C (±0.0080% /°C)	2.5mV
			0 to 10V		±0.2% (±10mV)		±0.4% (±20mV)		1.25mV
			0 to 5V	0 to 4000					1.0mV
		Current	1 to 5V						5μA
			0 to 20mA	0 to 4000	±0.2% (±40μA)		±0.4% (±80μA)		4μA
4 to 20mA									
Conversion Speed		200μs / 2 channel							
Output Short-Circuit Protection		Provided							
Absolute Maximum Output		Voltage: ±12V, current: +21mA							
Analog Output Points		2 channels / 1 module							
CC-Link/LT Station Type		Remote device station							
Number of Occupied Stations		16 point mode with two occupied stations (*3)							
Isolation		Specific Isolated Area			Isolation System	Dielectric Withstand Voltage	Insulation Resistance		
		Between communication system terminals and all analog input terminals			Photocoupler isolated	1 min. duration of 500VAC	500VDC		
		Between power supply system terminals and all analog input terminals							
		Between communication system terminals and power supply system terminals			Transformer isolated		10MΩ or more		
		Across channels			Non-isolated	-	-		
Connected Terminal Block		Direct-coupled, 14-point terminal block (M3 screw)							
Applicable Wire Size		0.3 to 1.25mm ²							
Applicable Crimping Terminal		RAV1.25-3 (conforming to JIS C2805), V1.25-3 (manufactured by JST Mfg. CO., Ltd.), 1.25-3, TG1.25-3 (manufactured by NICHIFU CO., Ltd.)							
Module Power Supply (*4)	Voltage	24VDC (20.4VDC to 28.8VDC, ripple ratio: within 5%)							
	Current Consumption	0.170A							
	Start Up Current	0.470A							
Protection Degree		IP2X							
Weight (kg)		0.15							
Dimensions (W x H x D) mm		69 x 49 x 40							

Notes:

- Standard accuracy.
- Accuracy for each 1°C temperature change.
- The number of I/O occupied points (occupied station count) differs depending on the final channel permitted for conversion.
- A dedicated power supply/supply adaptor is used to supply power.