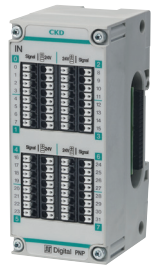


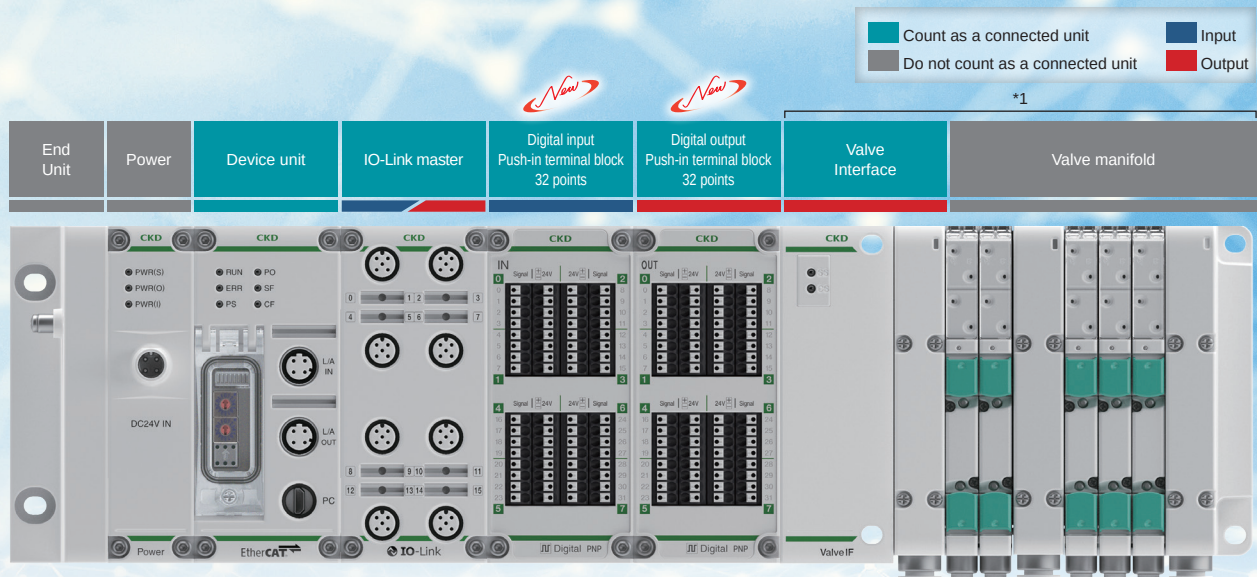
Remote I/O RT Series

Digital I/O Unit

Push-in Terminal Block



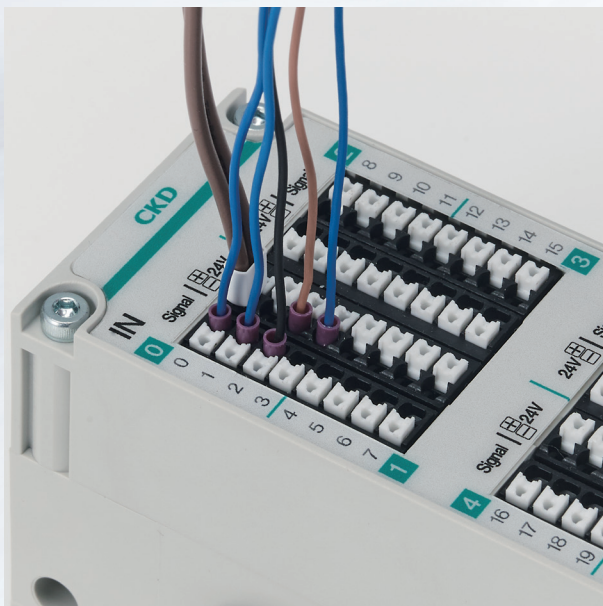
Digital I/O push-in terminal block, 32 points added



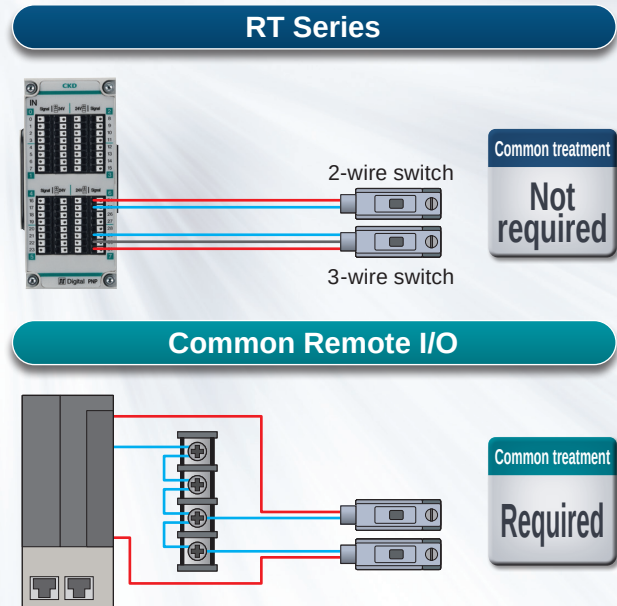
*1 The valve interface and valve manifold must be prepared separately. Refer to the plug-in block manifold (CC-1595A) for details. Valve interface and valve manifold are not UL compliant.

Push-in terminal block

No dedicated tools needed



Common terminal block is provided for each contact



Read the safety precautions in "Remote I/O RT Series (CC-1557A)" before use.

CKD Corporation

CC-1607AA



Digital input unit / Digital output unit

RT-XADGC, RT-XBDGC

Supports 32 points, status notification via LED
Push-in terminal block



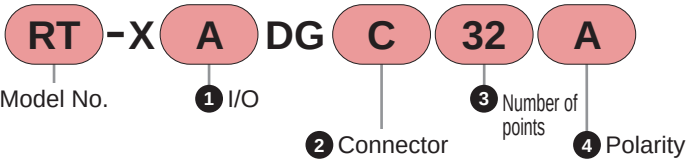
Refer to the CKD website for applicable detailed model Nos.

Specifications

Item	Digital input unit		Digital output unit	
	RT-XADGC32A/B		RT-XBDGC32A/B	
General specifications	Size (W×H×D)	mm	46.1×106×55.8	
	Weight	g	Approx. 205	
	Environmental resistance	Degree of protection	IP40 (with manifold)	
		Ambient temperature °C	-10 to 55	
	Working atmosphere		No corrosive gas or heavy dust	
Vibration resistance	10 to 57Hz		Single amplitude: 0.75 mm	
	57 to 150 Hz		Acceleration: 98 m/s ²	
Shock resistance	m/s ²		294	
I/O Common	Polarity		PNP / NPN	
	Connector		Push-in terminal block	
	Number of points		32 points (4 bytes) * 1	
	Response time	ms	ON:0.8 or less / OFF:0.8 or less (point 0 to 15) ON:50 or less / OFF:50 or less (point 16 to 31)	ON:0.5 or less / OFF:1.0 or less
Protection / Detection function			Yes	
	Forced I/O setting		Input value can be set regardless of actual input	Output value settable regardless of process data
Input specification	Max. sensor supply current A		0.3 / block, 2 / unit *2	-
	Input current	mA	5.3 typ	-
	Input resistance	kΩ	Approx. 4.5	-
	Sampling cycle	μs	100	-
	Input filtering time	ms	0.1, 1, 5, 10, 20	-
	Input holding time	ms	Point 0 to 15: 1/15/100/200 Point 16 to 31: 100/200	-
Output specification	Supply power (for unit/input) V		24 DC	-
	Max. load current	A	-	0.5/point, 2/unit *2
	Leakage current	mA	-	0.1 or less
	Power supply (for output) V		-	24 DC
Electrical specifications	Internal consumption Current mA	For unit/input	220 or less	25 or less
		For output	5 or less	80 or less
	LED		For components / input status display, 32 pcs	For components / output status display, 32 pcs
Applicable wire			0.08 to 1.5 mm ² (AWG16 to 28) * UL/cUL compatible	

* 1 Check the instruction manual for temperature conditions at the max. ON point.
* 2 There are temperature conditions. Refer to the instruction manual.

How to order

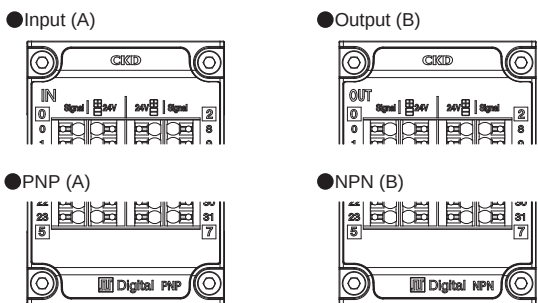
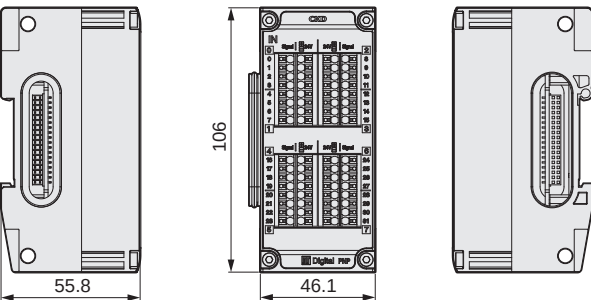


1 I/O	2 Connector	3 Number of points	4 Polarity
A Input B Output	C Push-in terminal block	32 32 points	A PNP B NPN

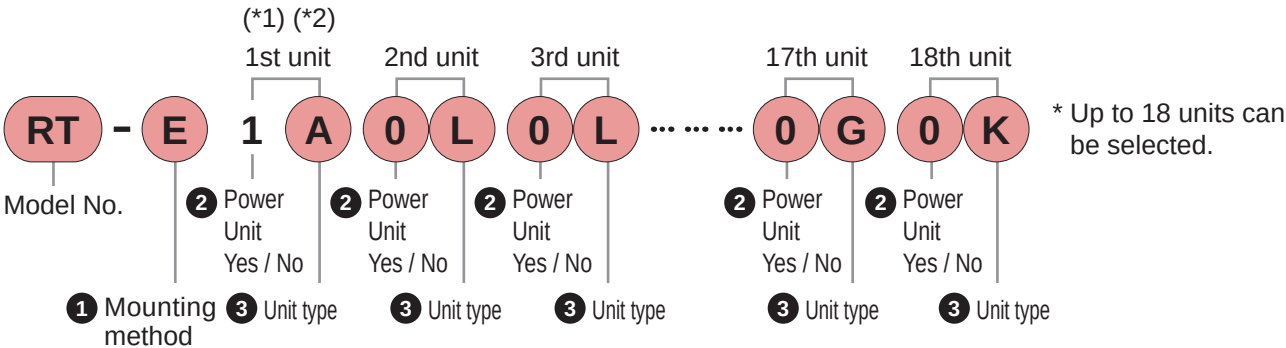
Dimensions

* The figure shows the digital input unit RT-XADGC32A.

* The digital input unit and digital output unit have the same dimensions. However, the I/O display and polarity display differ as shown in the figure below.



How to order



1 Mounting method

E	Direct mounting
F	DIN mounting

*1 The left and right end units will be automatically selected according to the mounting method.

*2 The total length, including the mounting rail, must be 962.5mm or less. Refer to the next page for the mounting rail length.

2 With/Without power supply unit

0	Without power supply unit
1	Power supply unit available (RT-XP24A01N)

*1: When selecting the first unit, for the 2 presence or absence of a power supply unit, select "1" with a power supply unit.

*2: 2 Select the power supply unit 3 by set with or without the unit type. The power supply unit will be placed to the left of the selected unit.

3 Unit type

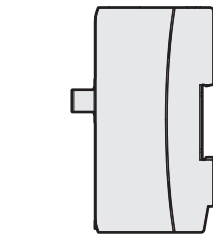
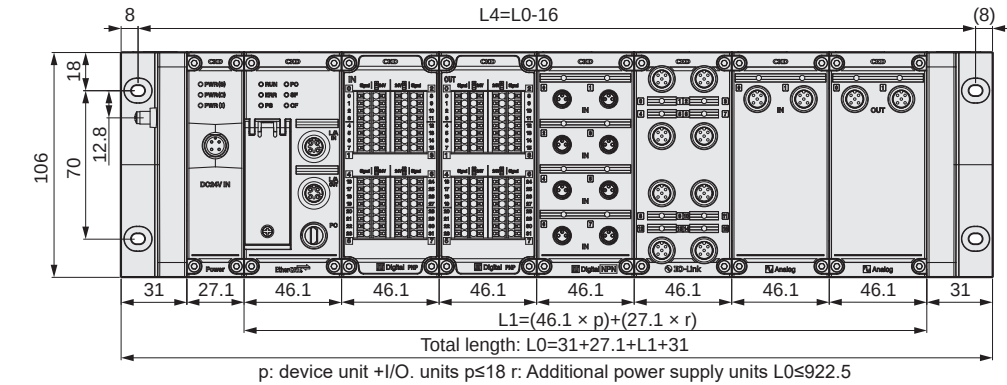
Unit name	Description	Discrete model No.	Code	
Device unit	EtherCAT compatible	RT-XTECN00N	A	
	EtherNet/IP compatible	RT-XTENN00N	B	
	PROFINET compatible	RT-XTEPN00N	P	
Digital input	M12 / 16 points / PNP	RT-XADGA16A	C	
	M12 / 16 points / NPN	RT-XADGA16B	D	
	M8 / 8 points / PNP	RT-XADGB08A	E	
	M8 / 8 points / NPN	RT-XADGB08B	F	
Analog input	2CH	RT-XAAGA02N	G	
Digital output	M12 / 16 points / PNP	RT-XBDGA16A	H	
	M12 / 16 points / NPN	RT-XBDGA16B	J	

Unit name	Description	Discrete model No.	Code	
Analog output	2CH	RT-XBAGA02N	K	
IO-Link master	8-port	RT-XLMSA08N	L	
Digital input	Push-in terminal block / 32 points / PNP	RT-XADGC32A	M	
	Push-in terminal block / 32 points / NPN	RT-XADGC32B	N	
Digital output	Push-in terminal block / 32 points / PNP	RT-XBDGC32A	R	
	Push-in terminal block / 32 points / NPN	RT-XBDGC32B	S	

*1 Only 1 device unit can be selected within the manifold.
*2 Up to 18 units can be selected for connection.

Dimensions

RT-E * (direct mount)

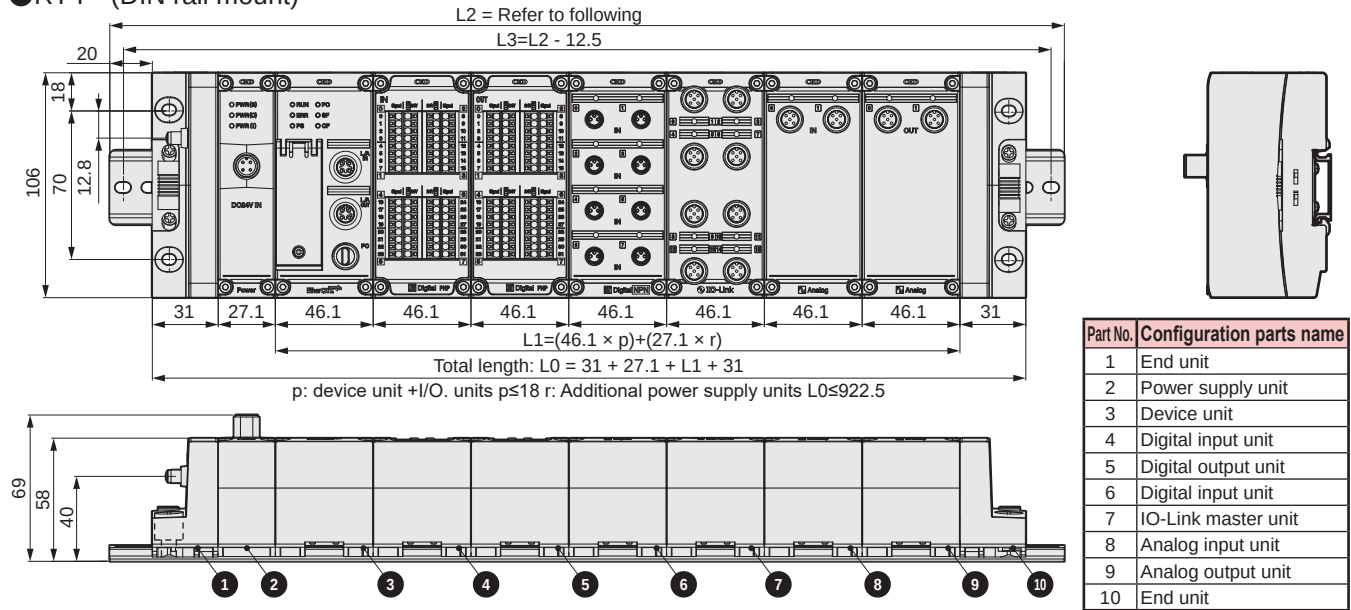


Part No.	Configuration parts name
1	End unit
2	Power supply unit
3	Device unit
4	Digital input unit
5	Digital output unit
6	Digital input unit
7	IO-Link master unit
8	Analog input unit
9	Analog output unit
10	End unit

RT-E, RT-F Series

Dimensions

●RT-F* (DIN rail mount)



How to calculate length L

How to calculate total length L

$$L0 = 31 + 27.1 + L1 + 31$$

*1:L0 must be 922.5 mm or less.

How to calculate remote I/O length L

$$L1 = (46.1 \times p) + (27.1 \times r)$$

p: Device unit +I/O Number of units p≤18
r: Additional power supply units

Unit width dimensions table (mm)

Unit		Width
RT-XEE*	End unit (direct mount)	31
RT-XFE*	End unit (DIN mount)	31
RT-XP24A01N	Power supply unit	27.1
RT-XT*N00N	Device unit	46.1
RT-XADG*	Digital input unit	46.1
RT-XBDG*	Digital output unit	46.1
RT-XAGA02N	Analog input unit	46.1
RT-XBAGA02N	Analog output unit	46.1
RT-XLSA08N	IO-Link master unit	46.1

Mounting rail

- When an RT-F* (DIN rail mount) manifold is selected, the product is shipped with a standard mounting rail mounted.
- Find standard length using the calculation method shown below.
- When a mounting rail other than the standard length is required, specify the length (L2) in the following model No. and purchase separately. L2 must be 962.5 mm or less.

RT-DIN-length

- How to determine the length of the mounting rail

$$L2 = L2' \times 12.5$$

$$L2' = \frac{L0+40}{12.5} \text{ decimals rounded up}$$

$$\text{Rail mounting pitch (L3)} = L2 - 12.5$$

● Mounting rail length quick reference table

L0	172.5	185	197.5	210	222.5	235	247.5	260	272.5	285	297.5	310	322.5	335	347.5	360	372.5	385	397.5	410	422.5	435	447.5	460	472.5	485	497.5	510	522.5	535
	185	197.5	210	222.5	235	247.5	260	272.5	285	297.5	310	322.5	335	347.5	360	372.5	385	397.5	410	422.5	435	447.5	460	472.5	485	497.5	510	522.5	535	
L2	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375	387.5	400	412.5	425	437.5	450	462.5	475	487.5	500	512.5	525	537.5	550	562.5	575	587.5
L3	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375	387.5	400	412.5	425	437.5	450	462.5	475	487.5	500	512.5	525	537.5	550	562.5	575
L0	547.5	560	572.5	585	597.5	610	622.5	635	647.5	660	672.5	685	697.5	710	722.5	735	747.5	760	772.5	785	797.5	810	822.5	835	847.5	860	872.5	885	897.5	910
	560	572.5	585	597.5	610	622.5	635	647.5	660	672.5	685	697.5	710	722.5	735	747.5	760	772.5	785	797.5	810	822.5	835	847.5	860	872.5	885	897.5	910	
L2	600	612.5	625	637.5	650	662.5	675	687.5	700	712.5	725	737.5	750	762.5	775	787.5	800	812.5	825	837.5	850	862.5	875	887.5	900	912.5	925	937.5	950	962.5
L3	587.5	600	612.5	625	637.5	650	662.5	675	687.5	700	712.5	725	737.5	750	762.5	775	787.5	800	812.5	825	837.5	850	862.5	875	887.5	900	912.5	925	937.5	950

Tie rod combination

When increasing or decreasing the number of stations, purchase a tie rod with reference to the table below.

	Number of device unit + I/O units																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
RT-TR-1	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-
RT-TR-2	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1
RT-TR-3	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-
RT-TR-4	-	-	-	1	1	1	1	-	-	-	1	1	1	1	1	-	-	-
RT-TR-8	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	2	2	2
RT-TR-P	1 or more number of power supply units																	
RT-TR-E	1																	

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