

Remote I/O unit

RT Series

Remote I/O system that can be created by freely combining units

How to order

RT - X A DG A 16 A

- RT: Model No.
- ❶ Unit type
- ❷ Main function
- ❸ Connector
- ❹ Point count/channel count
- ❺ Polarity

❶ Unit type

T	Device unit
A	Input unit
B	Output unit
L	IO-Link. unit
E	End unit (for direct mounting)
F	End unit (for DIN rail mounting)
P	Power supply unit

❷ Main function

		RT-XT	RT-XA	RT-XB	RT-XL	RT-XE	RT-XF	RT-XP
EC	EtherCAT compatible device unit	●						
EN	EtherNet/IP compatible device unit	●						
AG	Analog		●	●				
DG	Digital		●	●				
MS	Master				●			
EL	For left end					●	●	
ER	For right end					●	●	
24	Power supply (24 VDC)							●

❸ Connector

		RT-XT	RT-XA	RT-XB	RT-XL	RT-XE	RT-XF	RT-XP
A	M12		●	●	●			●
B	M8		● *1					
N	No connector specified	●				●	●	

*1:RT-XADG only.

❹ Number of points/CH Quantity

		RT-XT	RT-XA	RT-XB	RT-XL	RT-XE	RT-XF	RT-XP
01	1 point/1 CH							●
02	2 points/2 CH		● *1	● *1				
08	8 points/8 CH		● *2		●			
16	16 points/16CH		● *3	● *3				
32	32 points/32CH							
00	Point count/channel count cannot be designated	●				●	●	

*1:❷Selectable only when main function is "AG".
*2: RT-XADGB only.
*3:❷Main function is "DG" and ❸ Available only when Connector type is "A".

❺ Polarity

		RT-XT	RT-XA	RT-XB	RT-XL	RT-XE	RT-XF	RT-XP
A	PNP		● *1	● *1				
B	NPN		● *1	● *1				
N	Polarity cannot be designated	●	● *2	● *2	●	●	●	●

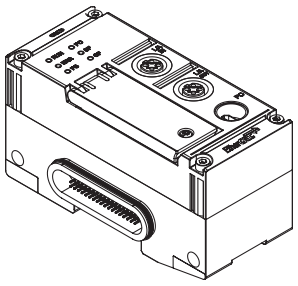
*1: ❷Selectable only when main function is "DG".
*2: ❷Selectable only when main function is "AG".



Device unit

RT-XT

Communication unit connecting the PLC and I/O unit



Specifications

Item			RT-XTECN00N	RT-XTENN00N
General specifications	Size (W×H×D) mm		46.1 x 106 x 55.8	
	Weight g		Approx. 230	
	Environmental resistance	Degree of protection	IP65/IP67 (with manifold)	
		Operating ambient temperature range °C	−10 to 55	
		Working atmosphere	No corrosive gas or heavy dust	
	Vibration resistance	10 to 57Hz	Single amplitude: 0.75mm	
		57 to 150Hz	Acceleration: 98m/s^2	
	Shock resistance m/s^2		294	
Communication specifications	Network		Supports EtherCAT DC mode Max. 513byte used	EtherNet/IP DLR compatible Max. 513byte used
	Connector		M12(D) 4pin Female ×2	
Input specification	Max. number of points		Max. 4096 points (512 bytes) including input / output	
Output specifications	Max. number of points			
Electrical specifications	Internal current consumption mA	For unit/input	100 or less	
		For output	20 or less	
	LED		Component / for communication status display/8 pcs	
Function specifications	Number of connectable I/O units		17 units	
	Automatic unit recognition		RECOGNITION AND MONITORING / SEQUENCE BY UNIT TYPE	
	Software for setting		USB (micro type B) connected to PC	USB (micro type B) or Connect to PC with Ethernet
	Data synchronization interval between units ms		Approx. 0.5 (min.)	

How to order

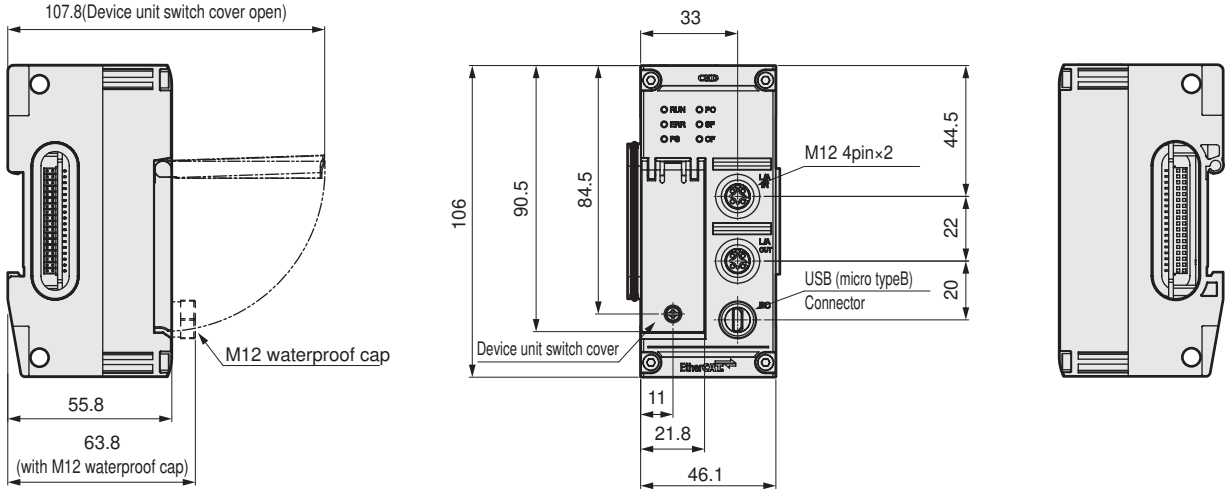
RT − **XT** **EC** **N00N**

Model No.

❶ Main function

EC	EtherCAT compatible device unit
EN	EtherNet/IP compatible device unit

Dimensions



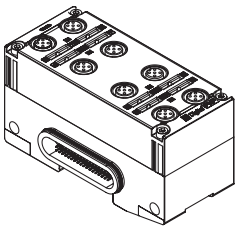
* This figure is for RT-XTECN00N. The logo and other print parts differ depending on the main functions.

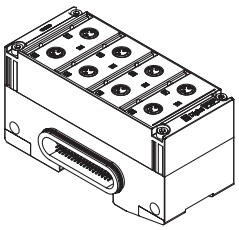


Digital input unit/digital output unit

RT-XADG/RT-XBDG

8/16 points supported, status notification via LED





Specifications

Item			Digital input unit		Digital output unit
			RT-XADGA16A/B	RT-XADGB08A/B	RT-XBDGA16A/B
General specifications	Size(W×H×D)	mm	46.1 x 106 x 55.8		
	Weight	g	Approx. 245		
	Environmental resistance	Degree of protection	IP65/IP67 (with manifold)		
		Operating ambient temperature range °C	−10 to 55		
		Working atmosphere	No corrosive gas or heavy dust		
	Vibration resistance	10 to 57Hz	Single amplitude: 0.75mm		
		57 to 150Hz	Acceleration: 98m/s^2		
	Shock resistance	m/s^2	294		
I/O Common	Polarity		PNP/NPN	PNP/NPN	PNP/NPN
	Connector		M12(A) 5pin female	M8 3pin female	M12(A) 5pin female
	Number of points		16 points (2 bytes)	8 points (2 bytes)	16 points (2 bytes)
	Response time	ms	ON : 0.8 or less/OFF:0.8 or less		ON : 0.5 or less/OFF:1.0 or less
	Protective / detection function		Yes		
	Forced input/output setting		Input value can be set regardless of actual input		Output value can be set regardless of process data
Input specifications	Max. sensor supply current	A	0.5/connector 2 /unit		-
	Input resistance	kΩ	5.6		-
	Sampling cycle	μs	100		-
	Input filtering time	ms	0.1/1/5/10/20		-
	Input hold time	ms	1/15/100/200		-
	Supply power (for unit / input)	V	24 DC		-
Output specifications	Max. load current	A	-	-	0.5/point 2/unit
	Leakage current	mA	-	-	0.1 or less
	Supply power (for output)	V	-	-	24 DC
Electrical specifications	Internal consumption Current mA	For unit/input	110 or less	80 or less	20 or less
		For output	5 or less	5 or less	45 or less
	LED		Component / input status For display/16 pcs	Component / input status For display/8 pcs	Component / output status For display/16 pcs

* There are temperature conditions, and refer to the instruction manual.

How to order

RT-X A DG A 16 A

Model No. ❶ I/O ❷ Connector ❸ Number of points ❹ Polarity

❶ I/O

A	Input
B	Output

❷ Connector

A	M12
B	M8 (❶Input "A" only)

❸ Number of points

08	8 points (❷Connector "B" only)
16	16 points

❹ Polarity

A	PNP
B	NPN