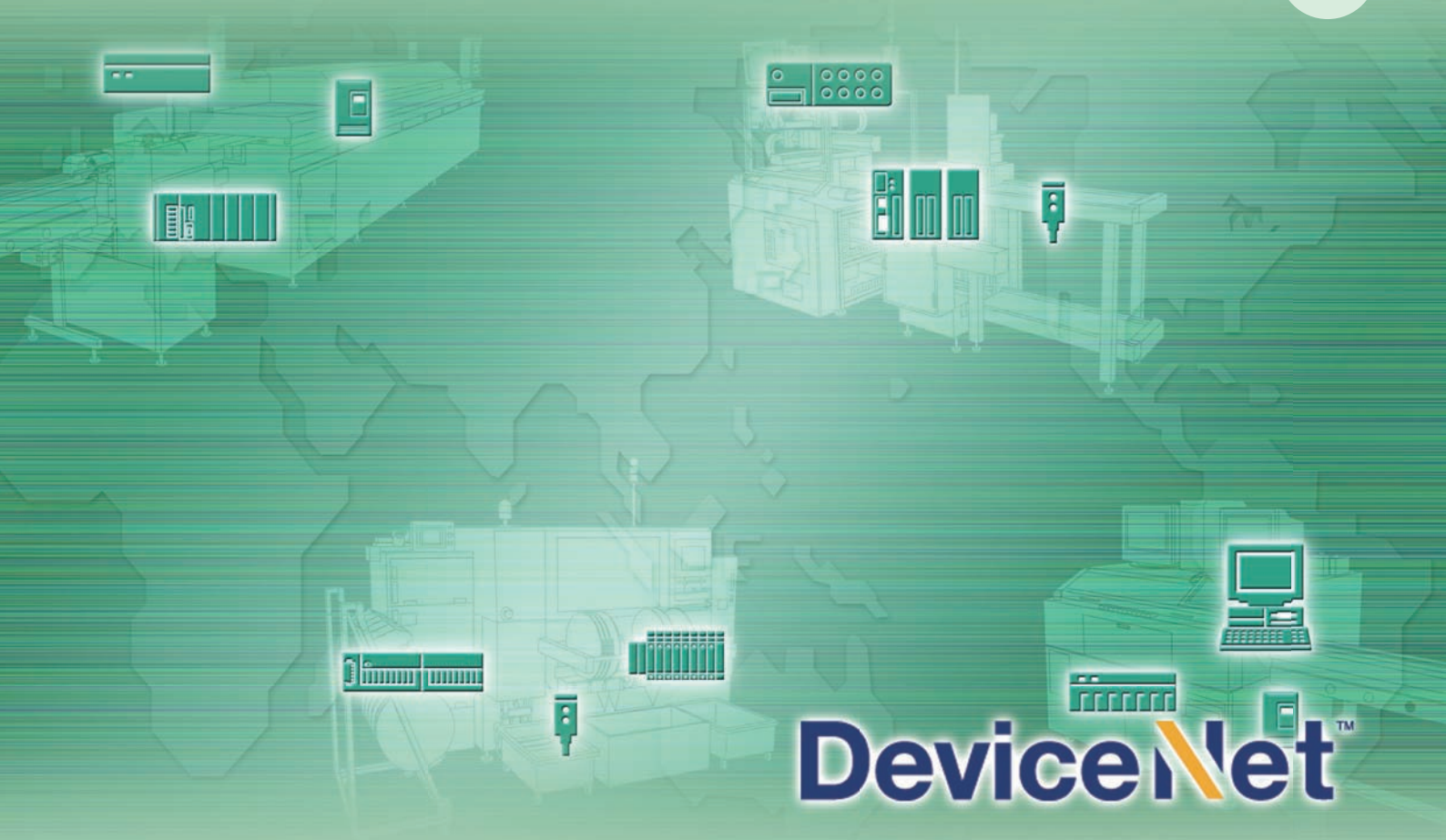


Multi-vendor Network  
**DeviceNet**



**DeviceNet**™

## Slaves

### GRT1 Smart Slaves

#### ■ DeviceNet Communications Unit

P. 68



GRT1-DRT

#### ■ SmartSlice I/O Units

P. 70



GRT1-ID4(-1)  
GRT1-OD4(-1)  
GRT1-ID8(-1)  
GRT1-OD8(-1)  
GRT1-ROS2  
GRT1-AD2  
GRT1-DA2C  
GRT1-DA2V  
GRT1-TS2P  
GRT1-TS2PK  
GRT1-CT1

### MULTIPLE I/O TERMINAL Series

#### ■ Communications Unit ■ Digital I/O Units

P. 73



DRT1-COM

P. 74



GT1-ID16(-1)  
GT1-OD16(-1)



GT1-ID32ML(-1)  
GT1-OD32ML(-1)



GT1-ID16MX(-1)  
GT1-OD16MX(-1)



GT1-ID16ML(-1)  
GT1-ID16DS(-1)  
GT1-OD16ML(-1)  
GT1-OD16DS(-1)

#### ■ Relay Output Units

P. 81



GT1-ROP08  
GT1-FOP08



GT1-ROS16

#### ■ Analog I/O Units

P. 83



GT1-AD08MX  
(connector)



GT1-DA04MX  
(connector)



GT1-AD04  
(terminal block)



GT1-DA04  
(terminal block)

#### ■ Temperature Input Units

P. 85



GT1-TS04T



GT1-TS04P

### PLC Intelligent Slaves

#### ■ Programmable Slaves

P. 88



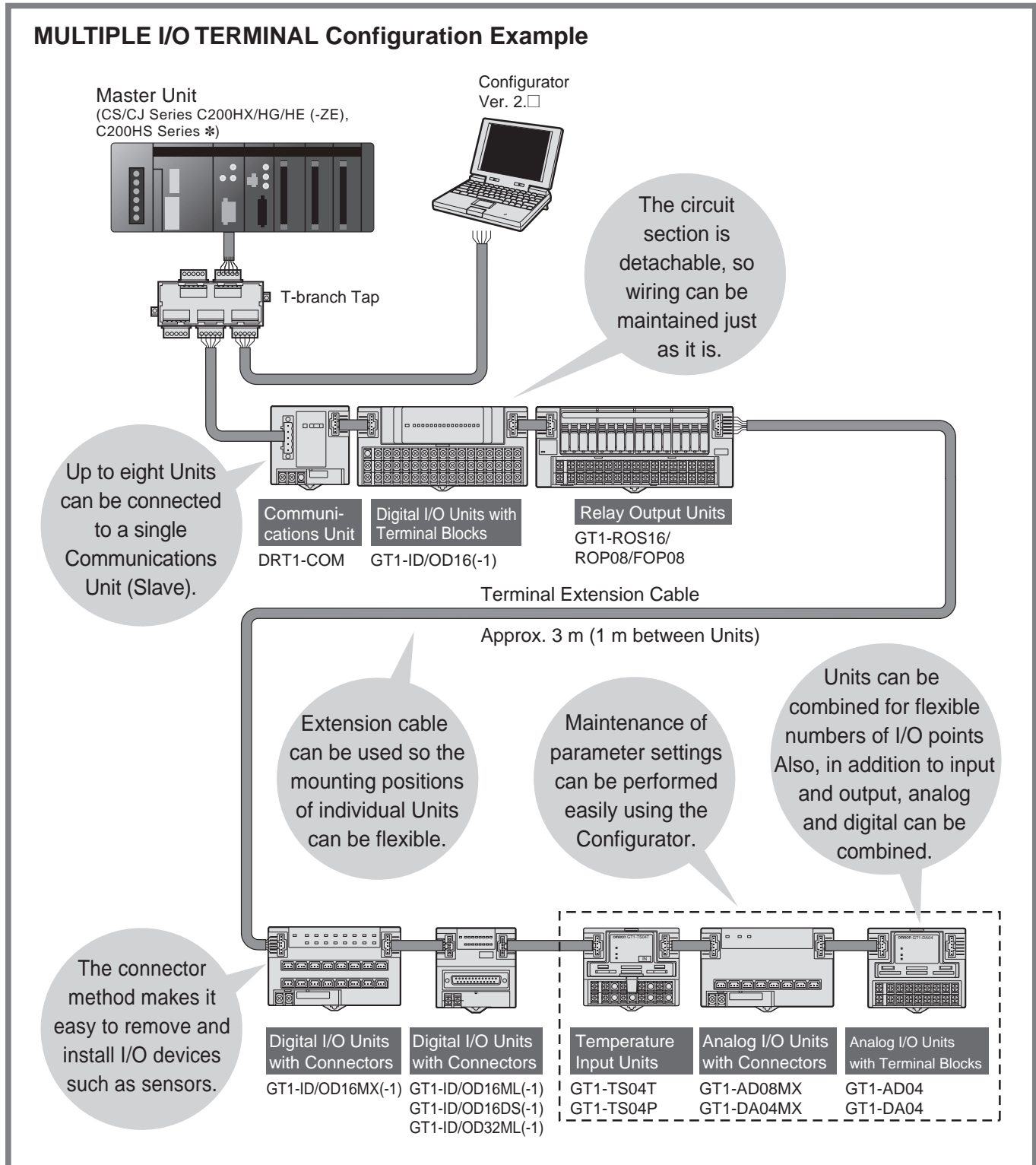
CPM2C-S100C-DRT \*1  
CPM2C-S110C-DRT \*1

\*1. Product no longer available to order.

# MULTIPLE I/O TERMINAL Series

A MULTIPLE I/O TERMINAL with a flexible combination of numerous versatile I/O Units handles digital I/O, analog I/O, counter inputs, or relay outputs and boosts on-site productivity higher than ever. Using a MULTIPLE I/O TERMINAL, one Slave (Communications Unit) can connect to a maximum of eight I/O Units to achieve control of a maximum of 1,024 I/O points. (see Note below.)

## MULTIPLE I/O TERMINAL Configuration Example



\* By using the DeviceNet Configurator (sold separately), control can be performed for up to 32,000 points for CJ1W-DRM21 and CS1W-DRM21-V1 DeviceNet Units, and 4,800 points for C200HX/HG/HE Master Units.  
**Note:** The number of I/O points under control may be restricted by the application. Refer to the *DeviceNet MULTIPLE I/O TERMINAL Operation Manual (W348)* for details.

# Communications Unit DRT1-COM

**Connects to a Total Maximum of Eight Digital I/O, Analog I/O, and Relay Output Units Compatible with MULTIPLE I/O TERMINAL.**

- Allows flexible combinations of I/O points.
- Covering a total cable length of 3 m.
- DIN track mounting.



## Ordering Information

Power supply voltage	Model
24 VDC	DRT1-COM

## General Specifications

Communications power supply voltage	11 to 25 VDC (supplied from the communications connector)
Internal power supply voltage	20.4 to 26.4 VDC
I/O power supply voltage	(24 VDC +10%/-15%)
Current consumption	Communications: 30 mA max. Internal circuit: 0.6 A at 24 VDC (with max. I/O load)
Dielectric strength	500 VAC
Noise immunity	Conforms to IEC61000-4-4, 2 kV (Power line)
Vibration resistance	10 to 150 Hz, 1.0-mm double amplitude or 70 m/s <sup>2</sup>
Shock resistance	200 m/s <sup>2</sup>
Mounting strength	No damage when 100 N pull load was applied in all directions (10 N min. in the DIN track direction)
Terminal strength	No damage when 100 N pull load was applied
Screw tightening torque	0.3 to 0.5 N*m Phoenix connector: 0.25 to 0.3 N*m
Ambient operating temperature	-10°C to 55°C (with no icing or condensation)
Ambient operating humidity	25% to 85%
Ambient storage temperature	-25°C to 65°C (with no icing or condensation)
Accessories	End connector (one)

## Specifications

Connectable Units	8	
Unit I/O points	1,024 max. (including inputs and outputs)	
Communications distance	Total extension	3 m max.
	Between Units	1 m max. (40 mm max. with the standard cable provided with the Unit) *
Dielectric strength	500 VAC for 1 min.	
Mounting method	DIN 35 mm-track mounting	
Unit output power supply	0.4 A max. (see Note.)	

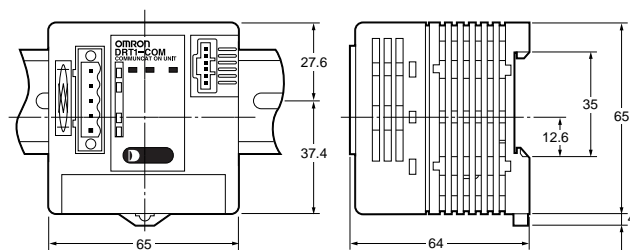
\* One cable is provided with each I/O Unit.

Note: The total current consumption for I/O Unit interfaces must not exceed 0.4 A.

## Dimensions

(Unit: mm)

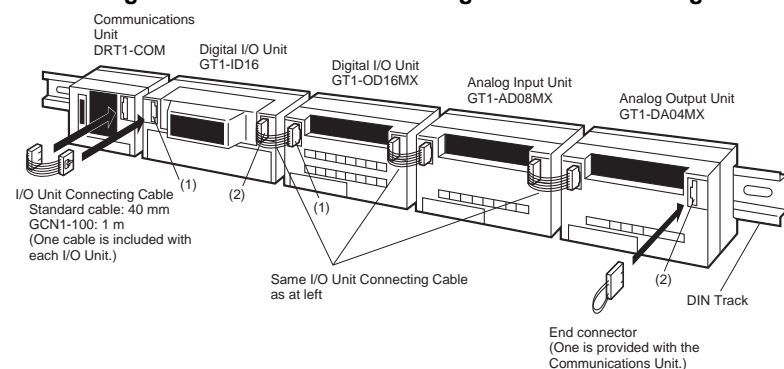
### DRT1-COM



Note: The Unit is shown with the end connector mounted in the above diagram.

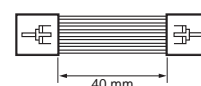
## Mounting and Connecting Units

### ● Mounting to DIN Track and Connecting I/O Unit Connecting Cable

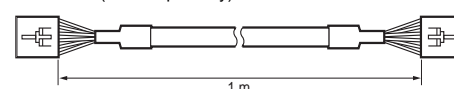


Note: The connecting cable for the I/O Unit is shown below.








#### Accessory Cable




#### GCN1-100 (Sold Separately)



● MULTIPLE I/O TERMINALS

Product	Appearance	I/O points	Specifications	Model	Standards
Communications Unit		--	Slave I/O points 1,024 max. (inputs and outputs)	<b>DRT1-COM</b>	U, C, CE
Digital I/O Units	Terminal block models	16 inputs	NPN (+ common)	<b>GT1-ID16</b>	U, C, CE
		16 inputs	PNP (- common)	<b>GT1-ID16-1</b>	
		16 outputs	NPN (- common)	<b>GT1-OD16</b>	
		16 outputs	PNP (+ common)	<b>GT1-OD16-1</b>	
	Molex connector models	16 inputs	NPN (+ common)	<b>GT1-ID16MX</b>	
		16 inputs	PNP (- common)	<b>GT1-ID16MX-1</b>	
		16 outputs	NPN (- common)	<b>GT1-OD16MX</b>	
		16 outputs	PNP (+ common)	<b>GT1-OD16MX-1</b>	
	Fujitsu connector models	16 inputs	NPN (+ common)	<b>GT1-ID16ML</b>	
		16 inputs	PNP (- common)	<b>GT1-ID16ML-1</b>	
		16 outputs	NPN (- common)	<b>GT1-OD16ML</b>	
		16 outputs	PNP (+ common)	<b>GT1-OD16ML-1</b>	
	D-sub, 25-pin connector models	16 inputs	NPN (+ common)	<b>GT1-ID16DS</b>	
		16 inputs	PNP (- common)	<b>GT1-ID16DS-1</b>	
		16 outputs	NPN (- common)	<b>GT1-OD16DS</b>	
		16 outputs	PNP (+ common)	<b>GT1-OD16DS-1</b>	
Fujitsu high-density connector models	32 inputs	NPN (+ common)	<b>GT1-ID32ML</b>		
	32 inputs	PNP (- common)	<b>GT1-ID32ML-1</b>		
	32 outputs	NPN (- common)	<b>GT1-OD32ML</b>		
	32 outputs	PNP (+ common)	<b>GT1-OD32ML-1</b>		
Relay Output Unit		16 outputs	Relay Output Unit with 16 points, 2 A, SPST-NO terminal block	<b>GT1-ROS16</b>	U, C, CE
		8 outputs	Relay Output Unit with 8 points, 5 A, SPST-NO terminal block	<b>GT1-ROP08</b>	--
		8 outputs	SSR Output Unit with 8 points, 1.5 A, SPSTNO terminal block	<b>GT1-FOP08</b>	
Analog Input Units		8 inputs	Molex connector	<b>GT1-AD08MX</b>	U, C, CE
		4 inputs	Terminal block	<b>GT1-AD04</b>	
Analog Output Units		4 outputs	Molex connector	<b>GT1-DA04MX</b>	U, C, CE
		4 outputs	Terminal block	<b>GT1-DA04</b>	
Temperature Input Units		4 inputs	Thermocouple input	<b>GT1-TS04T</b>	U, C, CE
		4 inputs	Platinum-resistance thermometer input	<b>GT1-TS04P</b>	
I/O Unit Connecting Cable		--	1 m	<b>GCN1-100</b>	--
		--	30 cm	<b>GCN1-030</b>	
		--	60 cm	<b>GCN1-060</b>	

● Intelligent Slaves (PLC Units) (No longer available to order)

Product	Appearance	Specifications	Model	Standards	
Programmable Slaves		Slave equipped with CPM2C CPU Unit functions 1,024 points max. for Remote I/O Links Includes CompoBus/s Master.	4 transistor outputs (sinking)	<b>CPM2C-S100C-DRT</b>	U, C, CE
			4 transistor	<b>CPM2C-S110C-DRT</b>	

**Related Manuals**

**Manuals**

Cat.No.	Product Group	Models	Name	Type
W267	-	-	DeviceNet	Operation Manual
W497	Master	CJ1W-DRM21	DeviceNet Units for NJ-Series CPU Units	Operation Manual
W380	Master	CS1W-DRM21(-V1),CJ1W-DRM21	DeviceNet Units	Operation Manual
W452	Master	NSJ	NSJ Controllers	Operation Manual
W381	Master	3G8F7-DRM21-E	DeviceNet PCI Board	Operation Manual
W404	Smart Slaves	DRT2 Series	DRT2 Series DeviceNet Slaves	Operation Manual
W454	SmartSlice	GRT1-DRT	DeviceNet Communications Unit	Operation Manual
W455	SmartSlice	GRT1	Slice I/O Units	Operation Manual
W348	Multiple I/O Terminals	DRT1-COM GT1 Series	DeviceNet Multiple I/O Terminal	Operation Manual
W353	Intelligent Slaves (PLC Units)	CPM2C-S1□0C-DRT	CPM1/CPM1A/CPM2A/CPM2C/SRM1(-V2) Programmable Controllers	Programming Manual
Z129	Intelligent Slaves	V680-HAM42-DRT	V600-HAM42-DRT Intelligent Flag III	Operation Manual
Z249	Intelligent Slaves	V680	ID Controller	User's Manual
N136	Intelligent Slaves	K3HB-R/-P/-C	Digital Indicators	User's Manual
N129	Intelligent Slaves	K3HB-DRT	Digital Indicators Communications	User's Manual
Z182	Intelligent Slaves	E5AR/E5ER	Digital Controller	User's Manual
H124	Intelligent Slaves	E5AR/E5ER	Digital Controller DeviceNet Communications	User's Manual
H142	Intelligent Slaves	EJ1	Modular Temperature Controller	User's Manual
H155	Intelligent Slaves	EJ1	DeviceNet Communications Unit for EJ1 Temperature Controllers	Operation Manual
I581	Intelligent Slaves	3G3AX-MX2-DRT-E 3G3AX-RX-DRT-E	MX2 series/RX series V1 type DeviceNet Communication Unit	User's Manual
Z905	CIP Safety on DeviceNet	WS02-CFSC1-E	CIP Safety on DeviceNet System	Configuration Manual
Z906	CIP Safety on DeviceNet	NE1A Series	CIP Safety on DeviceNet Safety Network Controller	Operation Manual
Z916	CIP Safety on DeviceNet	NE0A Series	CIP Safety on DeviceNet Safety Network Controller NE0A Series	Operation Manual
Z904	CIP Safety on DeviceNet	DST1 Series	CIP Safety on DeviceNet Safety I/O Terminals	Operation Manual
W382	Configurator	WS02-CFDC1-E,3G8F5-DRM21-E,3G8E2-DRM21-EV1	DeviceNet Configurator	Operation Manual
W504	Software	SYSMAC-SE2□□□	Sysmac Studio	Operation Manual