Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

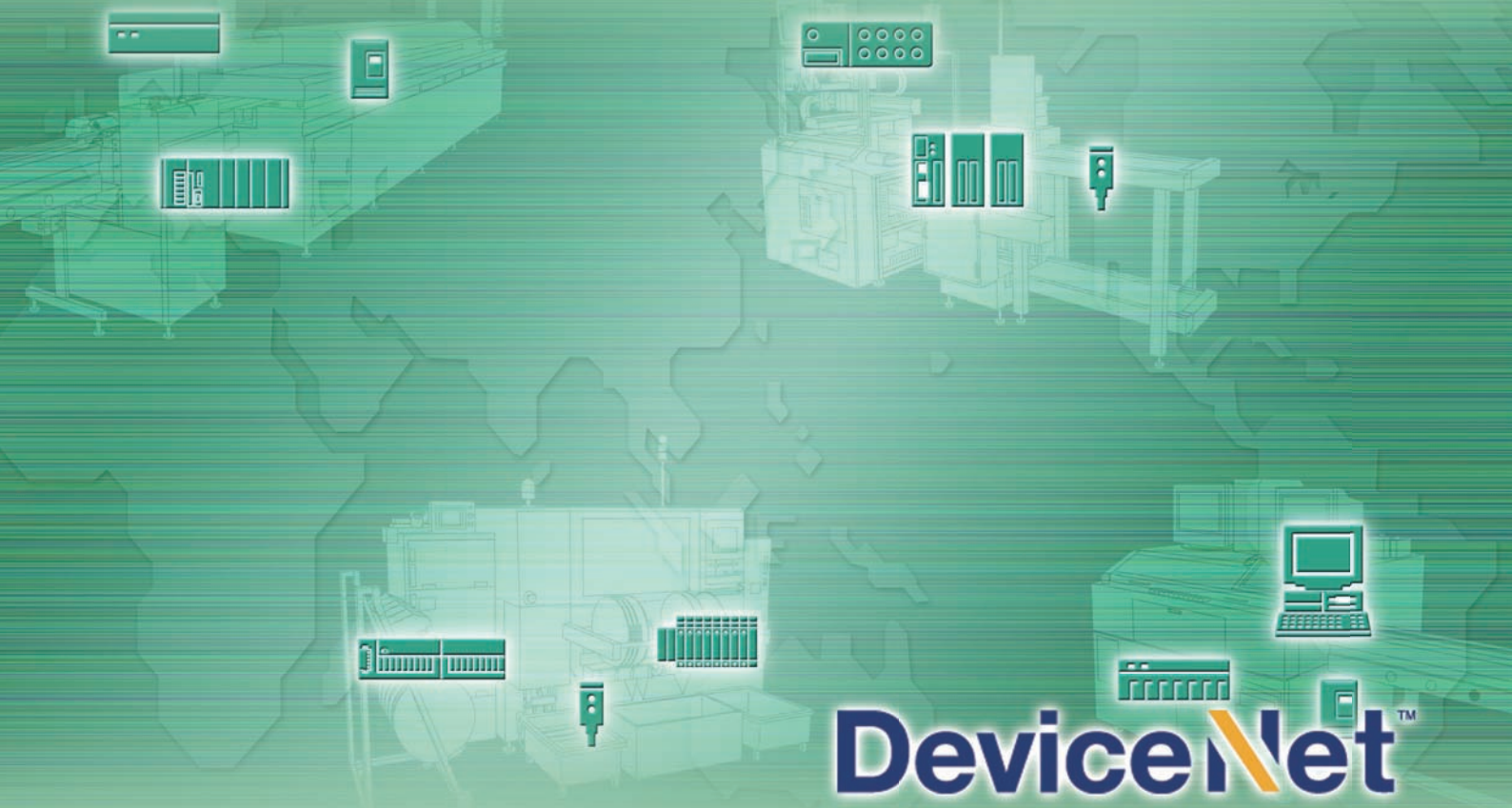
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

OMRON

Multi-vendor Network

DeviceNet



DeviceNet™

realizing

DeviceNet™

Today More Than Ever, DeviceNet Continues

New Lineup

Support for Machine Automation Controller NJ-Series!

Support for open network

The MX2 series/ MX2 series V1 type/ RX series V1 type* can be connected to DeviceNet by mounting the Communications Unit.

* Supported for the MX2 series Ver.1.1 or higher.
Not Supported for the RX series without V1 type.

8 types of remote I/O higher functions

**8 types of remote I/O functions that exchange I/O data automatically without program are provided.
All of the following functions of the inverter can also be used.**

- Simple positioning control
- Torque control
- Setting of acceleration/deceleration time etc.

Parameter Edit via DeviceNet

Parameters of the inverter can be edited via DeviceNet communication by using CX-Drive*, support tool of inverter/servo drive. No tool switching required.

* Supported for CX-Drive Ver.2.6 or higher.

MX2 series V1 type DeviceNet Communication Unit

3G3AX-MX2-DRT-E

P. 109

RX series V1 type DeviceNet Communication Unit

3G3AX-RX-DRT-E

P. 110

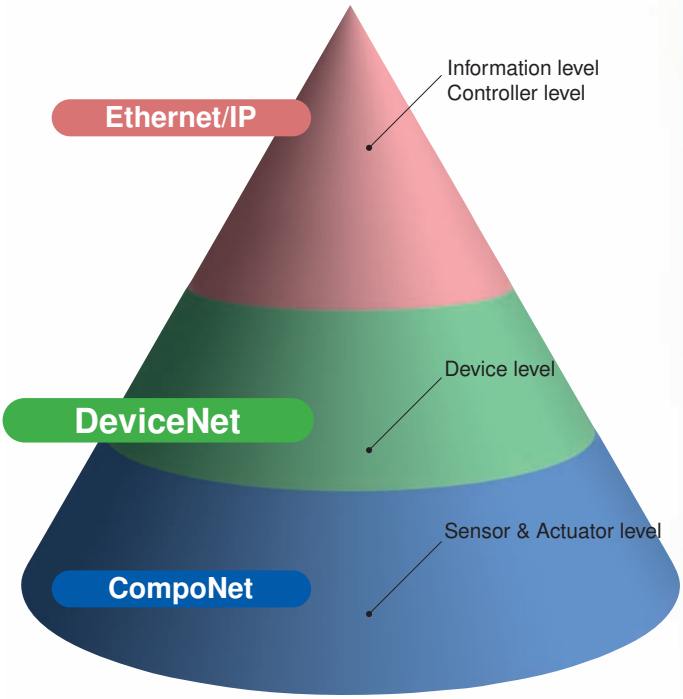
Selecting a Network Is a Strategic Decision. to Evolve.

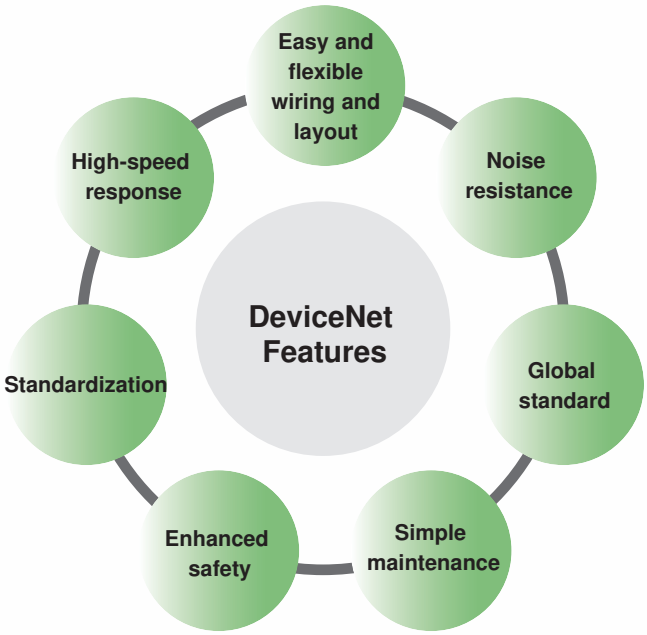
INDEX

Linking the World. A Global Open Network Greater Wiring Reduction, Standardization, on a Global Scale.

What Is DeviceNet?

DeviceNet is a field network that easily performs mutual connections between control devices, such as PLCs, computers, and sensors, as well as data devices, such as barcode readers and RFID Systems. DeviceNet is a standardized network that enables intelligent control of field devices and improves system productivity.

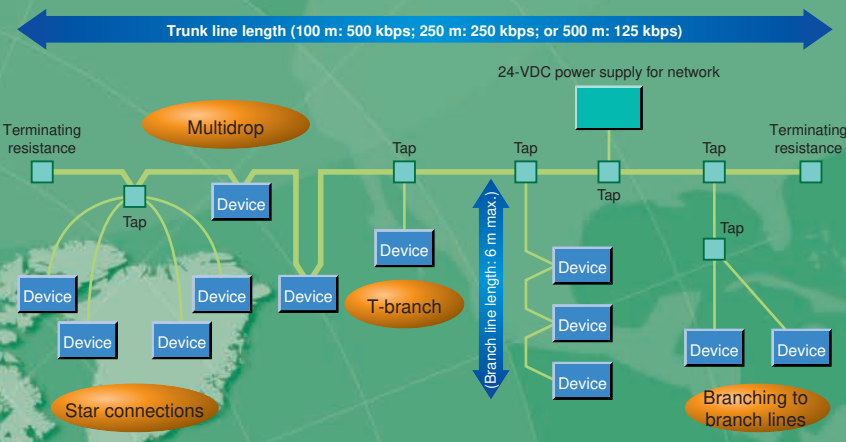




Used Worldwide.
and IT Technology at Manufacturing Sites

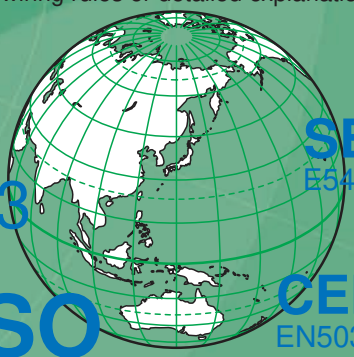
Superior installation performance enables easy and flexible wiring and layout.

DeviceNet covers a wide array of FA applications, ranging from the sensor or device level to the controller level. With its superior installation performance, DeviceNet easily achieves mutual connections between sensors and other control devices in one network as well as reducing costs and shortening lead time in many aspects of manufacturing, ranging from design and manufacture of equipment and lines to installation, operation, and maintenance.



Accelerating the Global Standardizations Required by Industry in This Age of Global Manufacturing

DeviceNet has been the leader in standardization required for this age of borderless manufacturing as a standard for a variety of countries and industrial organizations, such as with standard sensor bus certification by the SEMI industrial association and compliance with IEC, an international global standard. Equipment and lines at manufacturing sites overseas can be constructed and operated in the same way as at sites in Japan without the need for training on wiring rules or detailed explanations.



IEC 62026-3

SEMI E54.4-0997

ISO 11898

CENELEC EN50325-2

GB T18858.2-2002

Support for Creating Maintenance and Safety Systems

Support is provided for creating maintenance systems that provide failure prediction as preventive maintenance to reduce equipment downtime, which is a constant issue at manufacturing sites. Page F-6

Using DeviceNet lets you create safety control networks and program logic. Monitoring with safety controls makes maintenance easier. Page F-8

DRT2-series Smart Slaves are Intelligent for Your Networks from Installation

OMRON DRT2-series Smart Slaves decrease total costs and reduce work when used in a variety of manufacturing site applications, such as maintenance and quality control. The Slave Units monitor the network's power supply voltage and communications errors, which can be easily read using Support Software. In addition, the number of ON/OFF operations and total operating time of the devices wired to the slave are counted at the slave, which enables providing notification when maintenance is required.

Machine Operation Monitored by Slaves

Smart Functions

Smart Measuring

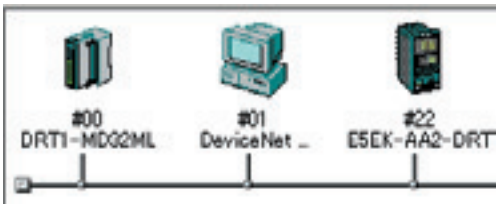
The Slave Unit represents machine operating time and operational changes as data, enabling monitoring without increasing the load between controllers.

Smart Counting

By counting the number of ON/OFF operations and the total operating time, the Slave Unit can provide notification when maintenance is required.

Easy-to-view Display

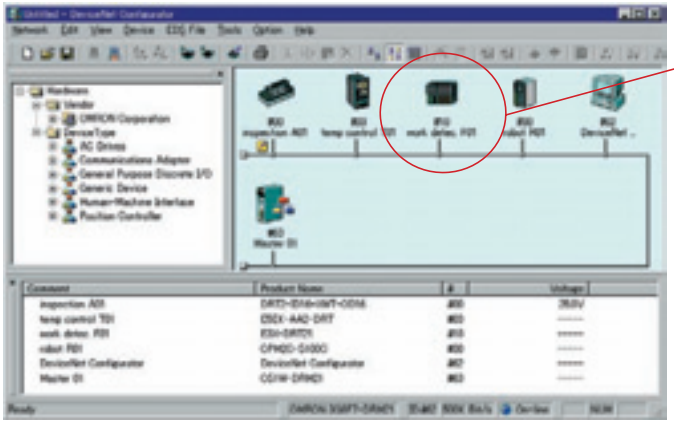
DeviceNet Configurator

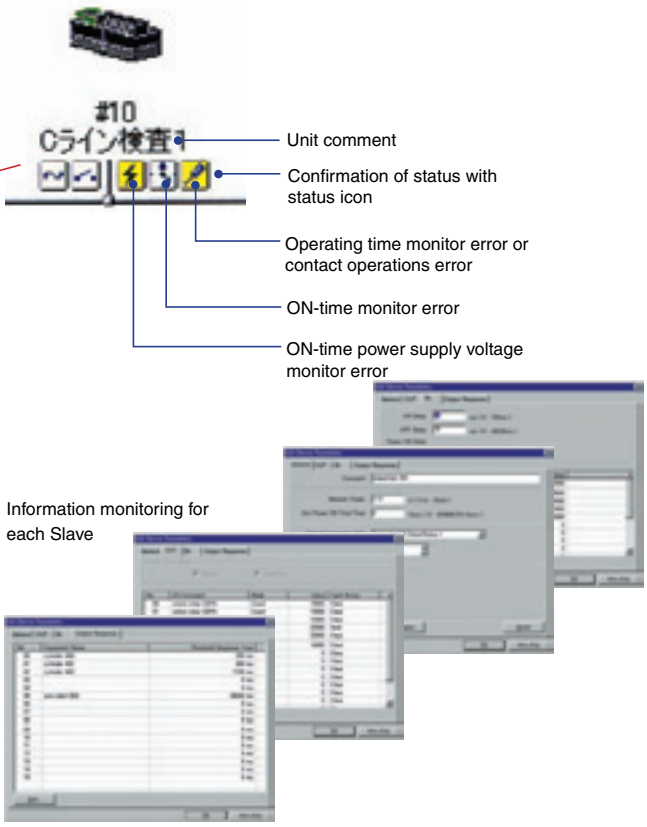


Operating time, contact operation counter

Improve Maintenance Efficiency

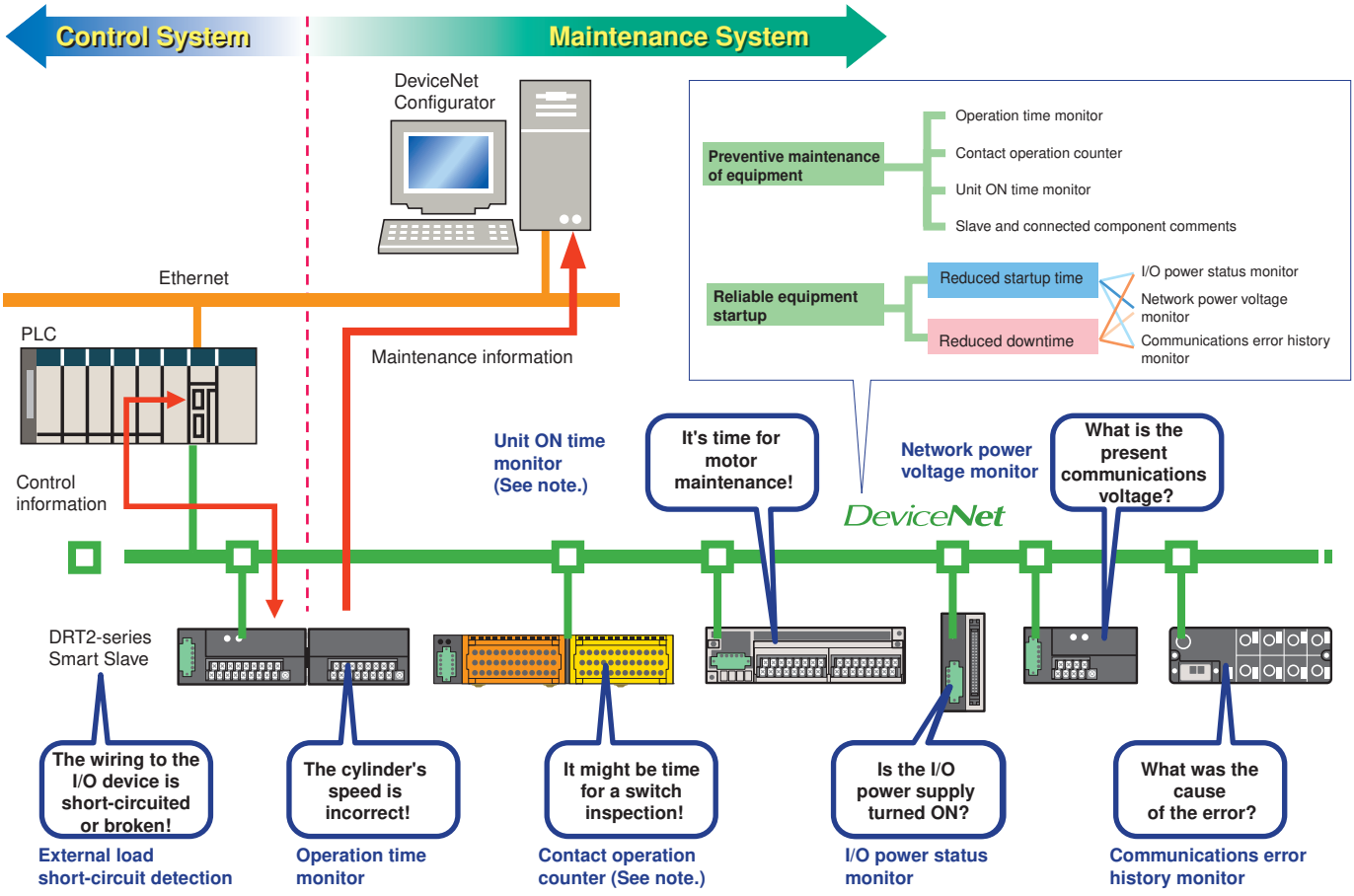
The Slave can hold comments, allowing quick identification of fault locations and faulty devices.





Slaves with Powerful Support to Maintenance

DeviceNet™



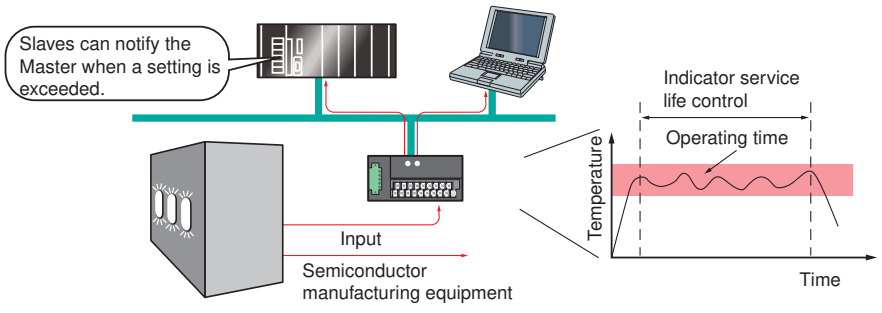
Note: The contact operation counter function and the unit ON time monitor function cannot be used simultaneously.

Using OMRON Temperature Input Terminals for Maintenance

Failure Prediction and Maintenance

If prolonging the time it takes to reach a certain temperature may degrade equipment:

The operating time of a preset temperature range is counted in 1-s units.

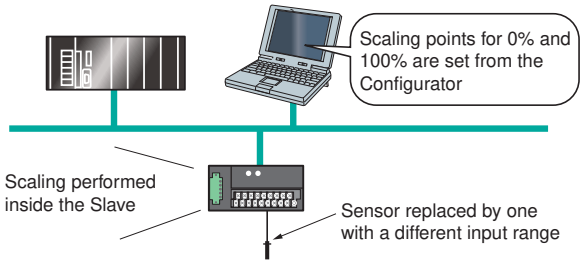


The peaks or valleys of temperature inputs that change in a regular pattern are counted to predict when devices operating with severe temperature swings are due for maintenance.

Short Startup

If it takes too long to modify the ladder program on the Master when a Temperature Sensor is replaced:

Slaves internally convert display values to temperature input values so the Controller program no longer has to be modified to perform this task.



Complies with the Highest Safety Standards in th

The CIP Safety on DeviceNet System conforms to IEC 61508 SIL3 for functional safety, and EN 954-1 Safety Category 4 for machine safety, complying with the world's highest level of safety standards.

IEC 61508 SIL 3

Safety circuits must be able to function to provide safety at anytime. Conversely, the degree of lack of safety is used as the indicator. In IEC 61508, safety is defined as the Probability of Failure per Hour, or PFH. Based on this, the SIL (Safety Level) is classified into four levels. SIL 3 indicates a probability of dangerous failure of once in 1,000 years, which is the highest level in machine safety.

EN 954-1 Safety Category 4

EN standards evaluate the level of machine risk and require the incorporation of risk minimization measures. In EN 954-1, five safety categories have been established, with Safety Category 4 indicating designs that require the highest safety design level. This category is demanded for machines with the highest level of danger, wherein "serious injury (severed limbs, death, etc.) will occur frequently, with little chance of escaping danger." This category demands that a single fault (failure) in any part of the machine, or a series of faults, will not lead to loss of the machine's safety functions.

Programmable Safety Circuits

↓

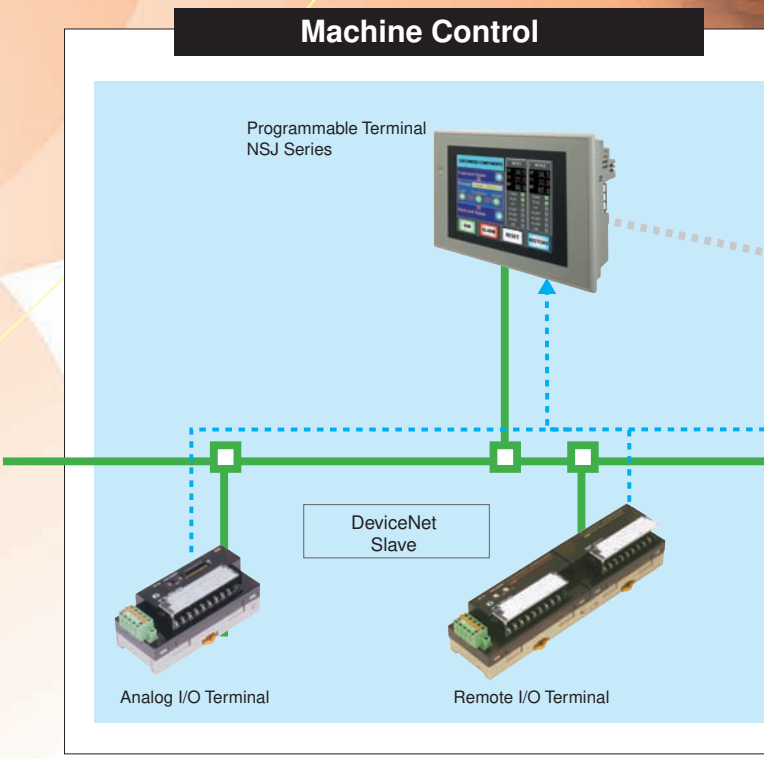
More efficient designing and modification

Compatible with DeviceNet Open Network

↓

Coordination with standard controls is easy through DeviceNet

CIP Safety™



e World

DeviceNet™

Safety Control

Safety Network Controller

Safety Network Controller with CIP Safety on DeviceNet Interface.

Network Configurator

USB

Incorporating DeviceNet Slave functionality. Monitor safety I/O and status information from the DeviceNet Master directly without requiring a geteway or other interface.

CIP Safety on DeviceNet Master

Network System Settings and Safety Network Controller programming.

DeviceNet

CIP Safety on DeviceNet Slave

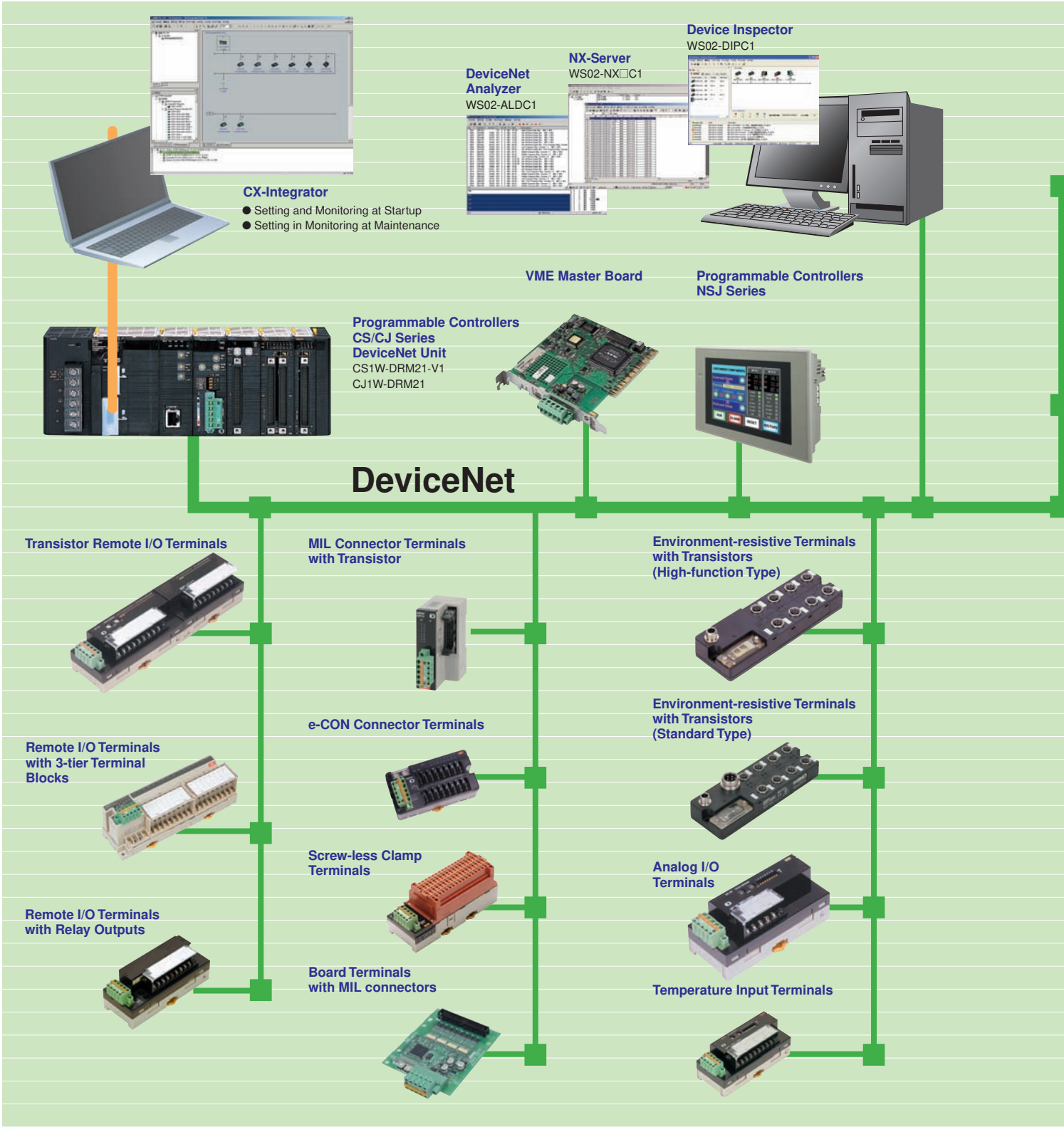
Safety I/O Terminal

Includes functions for improving maintenance.

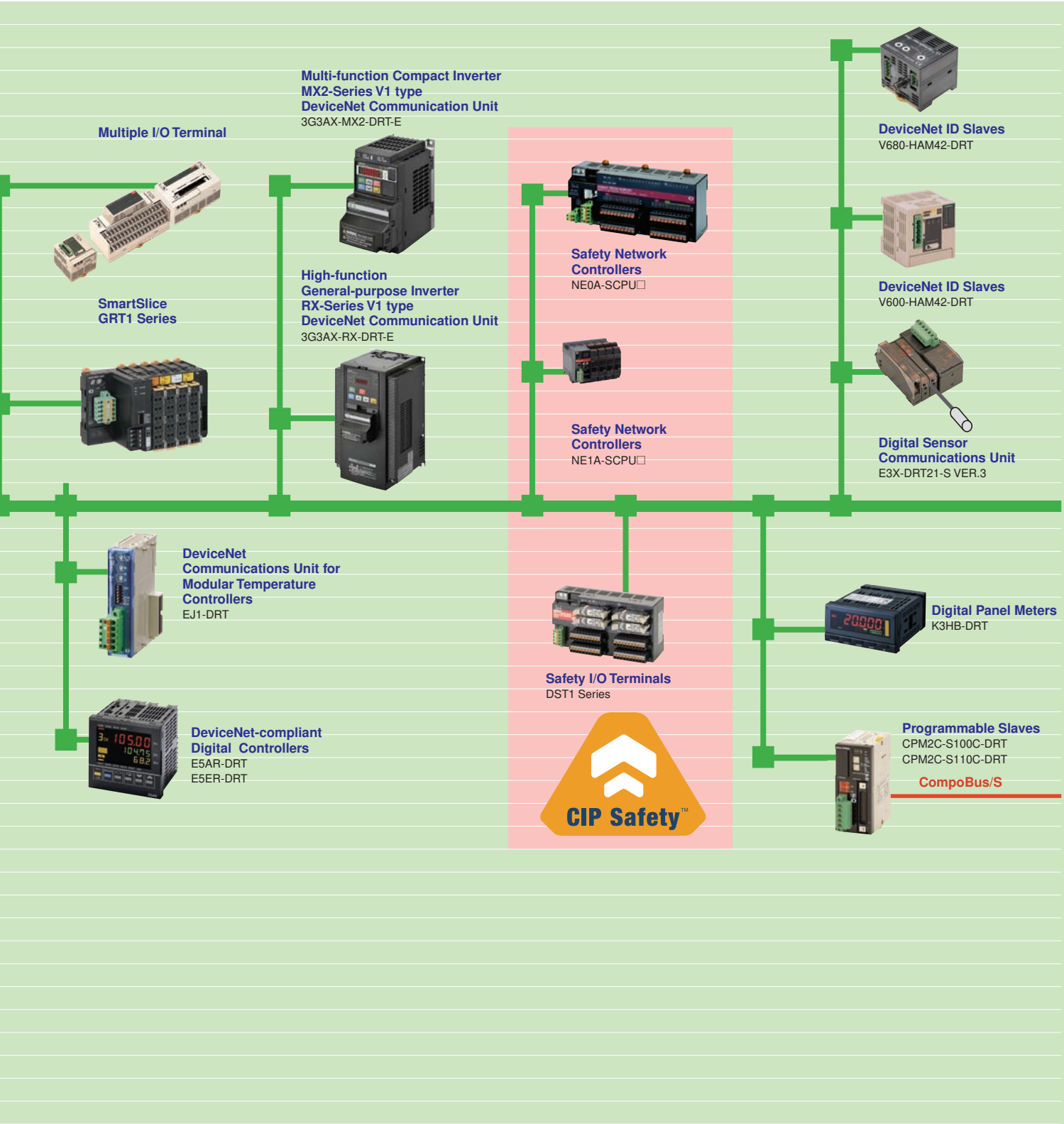
Safety I/O Terminal

Through Our High Reliability and Application OMRON Provides a Wide Range of DeviceNet Selection for Your Worksite.

**DeviceNet is a global open multi-vendor network that is spreading worldwide.
A wide variety of DeviceNet devices are provided by many vendors.
Having recognized the superior flexibility of DeviceNet for FA and its role as a global standard, OMRON provides a broad lineup of compatible devices.
In the future, OMRON will continue to enhance solutions using DeviceNet while further developing information technology and open networks.**



Know-how Refined at FA Sites, Devices to Enable the Ideal DeviceNet™



DeviceNet™ Product Lineup

Masters

■ DeviceNet Unit for CJ Series

P. 2

CJ1W-DRM21

■ DeviceNet Unit for CS Series

P. 3

CS1W-DRM21-V1

■ Programmable Controllers NSJ Series

P. 4

NSJ□-T□□1(B)-G5D

■ VME Master Board

P. 7

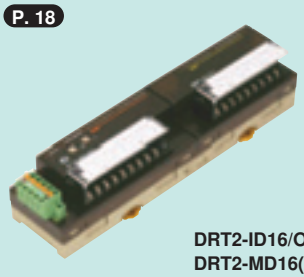
3G8F7-DRM21

Slaves

DRT2 Smart Slaves

■ Transistor Remote I/O Terminal

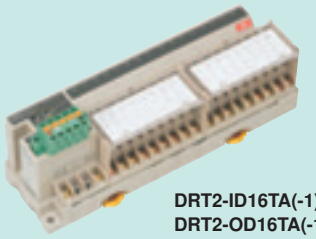
P. 18



DRT2-ID16/OD16(-1)
DRT2-MD16(-1)
DRT2-ID08/OD08(-1)
I/O Expansion Unit
XWT-ID16/OD16(-1)
XWT-ID08/OD08(-1)

■ Remote I/O Terminals with 3-tier Terminal Blocks

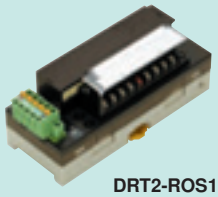
P. 28



DRT2-ID16TA(-1)
DRT2-OD16TA(-1)
DRT2-MD16TA(-1)

■ Remote I/O Terminals with Relay Outputs

P. 26



DRT2-ROS16

■ MIL Connector Terminals with Transistor

P. 34

DRT2-ID32ML(-1)
DRT2-OD32ML(-1)
DRT2-MD32ML(-1)
DRT2-ID16ML(-1)
DRT2-ID16MLX(-1)
DRT2-OD16ML(-1)
DRT2-OD16MLX(-1)

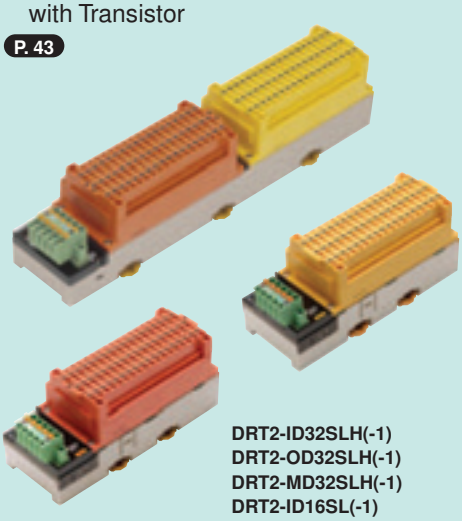
■ e-CON connector Terminals

P. 31

DRT2-ID16S(-1)
DRT2-MD16S(-1)

■ Screw-less Clamp Terminals with Transistor

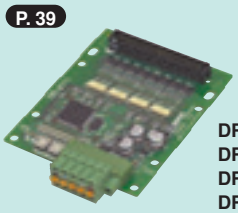
P. 43



DRT2-ID32SLH(-1)
DRT2-OD32SLH(-1)
DRT2-MD32SLH(-1)
DRT2-ID16SL(-1)
DRT2-ID16SLH(-1)
DRT2-OD16SL(-1)
DRT2-OD16SLH(-1)

■ Board Terminals with MIL connectors

P. 39



DRT2-ID32B(-1)
DRT2-OD32B(-1)
DRT2-MD32B(-1)
DRT2-ID32BV(-1)
DRT2-OD32BV(-1)
DRT2-MD32BV(-1)

■ Temperature Input Terminals

P. 60

DRT2-TS04T
DRT2-TS04P

■ Analog I/O Terminals

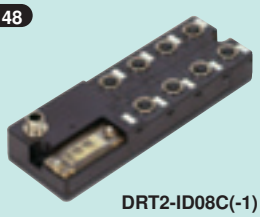
P. 57

DRT2-AD04
DRT2-AD04H

DRT2-DA02

■ Environment-resistive Terminals with Transistors (High-function Type)

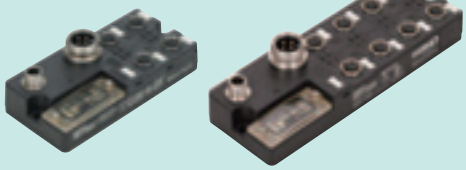
P. 48



DRT2-ID08C(-1)
DRT2-OD08C(-1)
DRT2-HD16C(-1)

■ Environment-resistive Terminals with Transistors (Standard Type)

P. 51



DRT2-ID04CL(-1)
DRT2-OD04CL(-1)
DRT2-ID08CL(-1)
DRT2-OD08CL(-1)

DRT2-MD16CL(-1)
DRT2-HD16CL(-1)
DRT2-WD16CL(-1)

DeviceNet™ Product Lineup

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

P. 73

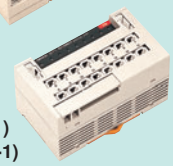
DRT1-COM

■ Digital I/O Units

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
CPM2C-S110C-DRT

Slaves

Intelligent Slaves

■ Digital Sensor Communications Unit

P. 92

E3X-DRT21-S VER.3

■ DeviceNet ID Slave

P. 94

V600-HAM42-DRT

■ DeviceNet ID Slave

P. 95

V680-HAM42-DRT

■ DeviceNet-compliant Digital Indicator

P. 96

K3HB-□-DRT

■ DeviceNet Communications Unit for Modular Temperature Controllers

P. 104

EJ1-DRT

■ DeviceNet-compliant Digital Controllers

P. 100

E5AR-DRT

E5ER-DRT

■ Multi-function Compact Inverter MX2-Series V1 type DeviceNet Communication Unit

P. 107

3G3AX-MX2-DRT-E

■ High-function General-purpose Inverter RX-Series V1 type DeviceNet Communication Unit

P. 108

3G3AX-RX-DRT-E

DeviceNet™ Product Lineup

Configurators and Software

Configurators

■ DeviceNet Configurator Ver.2.□

P. 128

WS02-CFDC1-E

■ PC Card DeviceNet Configurator (with software)

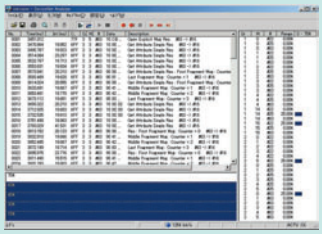
P. 128

3G8E2-DRM21-V1

Analysis Software

■ DeviceNet Analyzer

P. 130

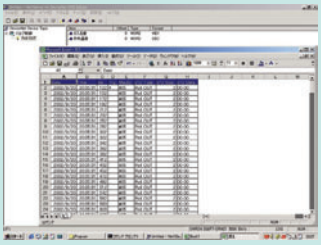


WS02-ALDC1

Monitor Software

■ NX-Server

P. 131



WS02-NX□C1

Diagnostic Tools

■ Device Inspector

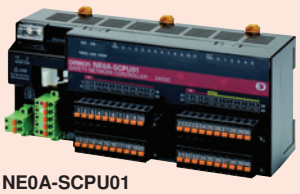
P. 132

WS02-DIPC1

Safety

■ Safety Network Controllers

P. 112



NE0A-SCPU01

P. 117

NE1A-SCPU02

NE1A-SCPU01(-V1)

■ Safety Network Configurator

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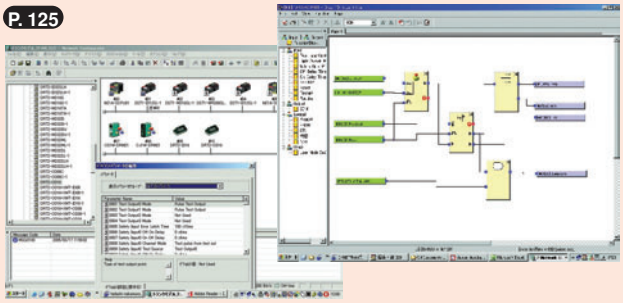

WS02-CFSC1-E

■ Safety I/O Terminals

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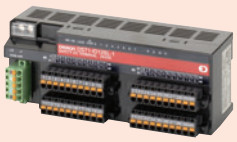
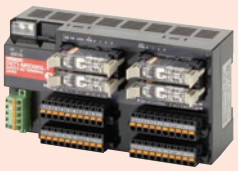


DST1-ID12SL-1
DST1-MD16SL-1
DST1-XD0808SL-1



DST1-MRD08SL

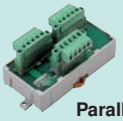
CIP Safety™

Peripheral Devices

Standard Cables P. 134

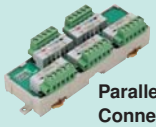
■ T-branch Taps

Parallel Connectors with Screws DCN1-1C

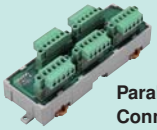


Parallel Connectors with Screws DCN1-2C

Orthogonal Connectors with Screws DCN1-2R



Parallel Connectors with Screws DCN1-3C



Parallel Connectors with Screws DCN1-4C

Orthogonal Connectors with Screws DCN1-4R

Parallel Connectors with Clamps DCN1-1NC

Parallel Connectors with Clamps DCN1-3NC

■ Connectors

Parallel Connector with Screws XW4B-05C1-H1-D

Multi-branch Parallel Connector with Screws XW4B-05C4-TF-D

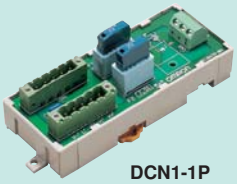
Multi-branch Parallel Connector without Screws XW4B-05C4-T-D

Orthogonal Connector with Screws XW4B-05C1-V1R-D

Parallel Connector with Screw-less Clamps XW4G-05C1-H1-D

Multi-branch Parallel Connector with Screw-less Clamps XW4G-05C4-TF-D

■ Power Supply Tap



DCN1-1P

■ Terminal-block Terminator

DRS1-T

■ DeviceNet Standard Cables

Thin Cable DCA1-5C10(-B)

Thick Cable DCA2-5C10(-B)

DeviceNet™ Product Lineup

Peripheral Devices

Environment-resistive Peripheral Devices (M12 Thin Cable with Micro Connectors) P. 144

■ Shielded T-branch Tap Connector

DCN2-1

■ Shielded Connector Cables

DCA1-5CN□□W1

DCA1-5CN□□H1

DCA1-5CN□□F1

■ Shielded Assembly Connectors

XS2G-D5S7

XS2C-D5S7

■ Shielded Terminating Resistor

DRS2-1
DRS2-2

■ Shielded Panel-mounting Connectors

XS2P-D522-2

XS2M-D524-4

Environment-resistive Peripheral Devices (Smartclick Thin Cable with Micro Connectors) P. 145

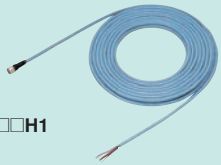
Smartclick

■ Shielded T-branch Tap Connector

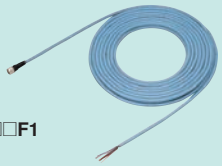
DCN2-1S

■ Shielded Connector Cables

DCA1-5CS□□W1



DCA1-5CS□□H1



DCA1-5CS□□F1

■ Shielded Branching Relay Box

DCN2-S4C5H1

DCN2-S8C5H1

■ Shielded Terminating Resistor

DRS2-1S
DRS2-2S

Environment-resistive Peripheral Devices (7/8-16 UN Thick Cable with Mini Connectors) P. 146

■ Shielded T-branch Tap Connector

DCN3-11

DCN3-12

■ Shielded Connector Cables

DCA2-5CN□□W1

DCA2-5CN□□H1

DCA2-5CN□□F1

■ Panel-mounting Connectors

DCA2-5CNC5P1

DCA2-5CNC5M1

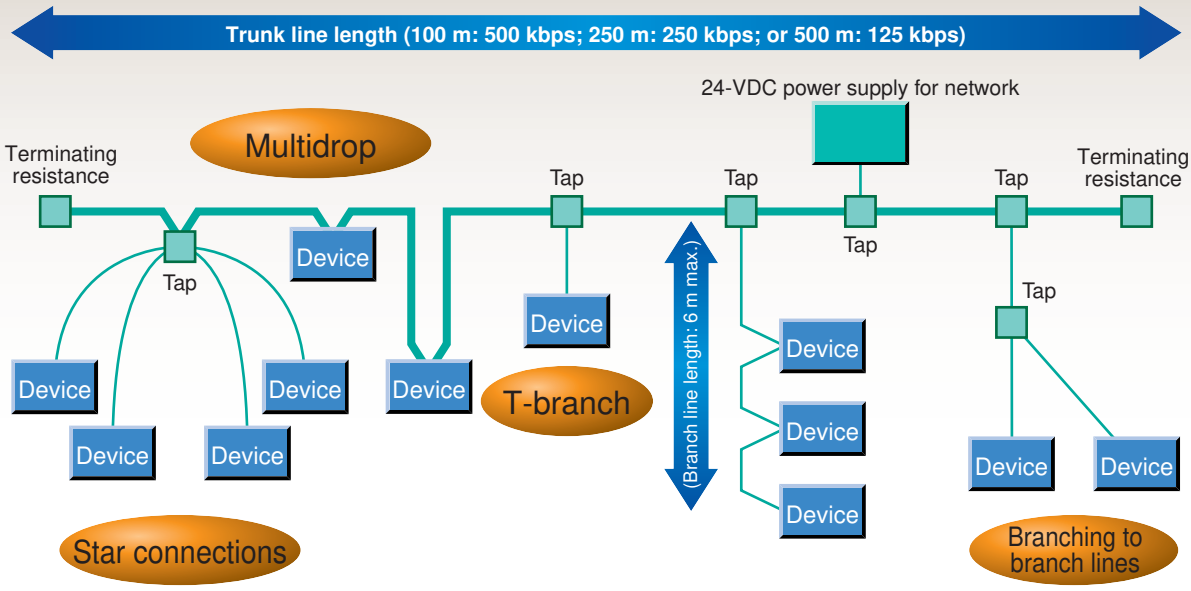
XS4M-D521-1

■ Shielded Terminating Resistor

DRS3-1

DeviceNet™ Network Specifications

DeviceNet Network Specifications



Communications Specifications

Item	Specification
Communication protocol	DeviceNet
Connection method (See note1.)	Multidrop and T-branch connections can be combined (for trunk lines and branch lines).
Baud rate	125, 250, or 500 kbps
Communication media	Special cable: 5-conductor cable (2 signal lines, 2 power lines and 1 shield) Special Flat cable: 4-conductor cable (2 signal lines, 2 power lines)
Communication distance	• Using a Special 5-wire Cable Baud rate / Max. network length / Branch line length / Total branch line length 500 kbps / 100 m max. / 6 m max. / 39 m max. 250 kbps / 250 m max. (See note2.) / 6 m max. / 78 m max. 125 kbps / 500m max. (See note2.) / 6 m max. / 156 m max. • Using a Special 4-wire Cable Baud rate / Max. network length / Branch line length / Total branch line length 500 kbps / 75 m max. / 6 m max. / 35 m max. 250 kbps / 150 m max. / 6 m max. / 48 m max. 125 kbps / 265 m max. / 6 m max. / 135 m max.
Communications power supply	24 VDC (external)
Max. number of connectable nodes	64 Units (including Master Units, Slave Units and Configurator)

Note 1: Terminating resistance required on both ends of the trunk line.
2: These values apply to using Thick Cable on the trunk line. If Thin Cable is used, the value will be 100 m max.

MEMO

Master Unit

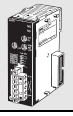
CJ-series DeviceNet Unit

CJ1W-DRM21

A DeviceNet Unit for the NJ/CJ Series

- Allows control of up to 32,000 points (2,000 words) per master, and ensures a high degree of simultaneity between data.
- Can be used as both a master and a slave at the same time.
- Equipped with settings and monitor functions aimed at improving both design and startup efficiency. Achieve maximum performance by using in combination with a Configurator.
- Files of master and slave settings can be uploaded and downloaded using memory cards, allowing effective debugging and easier setup.

Ordering Information

Unit classification	Product name	Specifications	Communications	No. of unit numbers allocated	Current consumption (A)		Model
					5 V	24V	
CJ1 CPU Bus Unit	DeviceNet Unit 	Equipped with Master and Slave functionality. Controls for up to 32,000 points per Master.	• Remote I/O Communications Master (fixed allocations or user-set allocations) • Remote I/O Communications Slave (fixed allocations or user-set allocations) • Message communications	1	0.29	-	CJ1W-DRM21

Master/Slave Specifications

Communications power supply voltage				11 to 25 VDC ✻1
Current consumption				Communications: 18 mA max. Internal circuit: 290 mA max.
Max. number of connectable slaves	Remote I/O, explicit message service			63 ✻2
Max. number of I/O points	Fixed allocations		When used as a master	2,048 points
			When used as a slave	32 points
	User-set allocations	Using allocated DM Area words	When used as a master	16,000 points
			When used as a slave	3,200 points
		Using Configurator	When used as a master	32,000 points
			When used as a slave	4,800 points
Number of allocated words	Fixed allocations		When used as a master	64 input and 64 output words Software switch/status area: 25 words
			When used as a slave	1 input word, 1 output word ✻3
	User-set allocations	Using allocated DM Area words	When used as a master	500 input and 500 output words Software switch/status area: 25 words
			When used as a slave	100 input and 100 output words ✻3 Software switch/status area: 25 words
		Using Configurator	When used as a master	500 input words x 2 blocks, 500 output words x 2 blocks Software switch/Status area: 25 words
			When used as a slave	100 input words x 1 blocks, 100 output words x 2 blocks ✻3 Software switch/Status area: 25 words
Message communications	Max. message length			542 bytes ✻4
Max. number of Units mountable to PLC	Fixed allocations			3
	User-set allocations			16
Weight				118 g

✻1. Refer to the *DeviceNet Operation Manual* (W267) for the communications power supply specifications.
✻2. The Device Unit uses a node, and so connection is possible to 63 slaves only.
✻3. When the DeviceNet is used as a slave, "input" and "output" respectively refer to input from the slave to the master and output from the master to the slave.
✻4. The maximum message length includes the command code when using the CMND instruction. (SendCmd instruction with NJ-series controller)

Note: When using with the Machine Automation Controller NJ Series, note the following points:
- Simple backup function cannot be used.
- DeviceNet configurator cannot be used. Use CX-Integrator.

General Specifications

The specifications conform to the CJ Series. Refer to the *CJ Series Catalog* (P052) for details on CJ-series specifications.
CJ2 Series Catalog (P059) for details on CJ2-series specifications.

Dimensions

31 x 90 x 65 mm (W x H x D)

CS-series DeviceNet Unit

CS1W-DRM21-V1

A DeviceNet Unit for the CS Series

- Allows control of up to 32,000 points (2,000 words) per master, and ensures a high degree of simultaneity between data.
- Can be used as both a master and a slave at the same time.
- Equipped with settings and monitor functions aimed at improving both design and startup efficiency. Achieve maximum performance by using in combination with a Configurator.
- Files of master and slave settings can be uploaded and downloaded using memory cards, allowing effective debugging and easier setup.

Ordering Information

Unit classification	Product name	Specifications				No. of unit numbers allocated	Current consumption (A)		Model
		Communications Cable	Communications	Redundant communications	Max. No. of Units mounted to 1 CPU Unit		5V	26V	
CS1 CPU Bus Unit	DeviceNet Unit 	DeviceNet Cable	• Remote I/O Communications Master (fixed allocations or user-set allocation) • Remote I/O Communications Slave (fixed allocation or user-set allocation) • Message communications	Not supported.	16	1	0.29	-	CS1W-DRM21-V1

Master/Slave Specifications

Communications power supply voltage				11 to 25 VDC ✻1
Current consumption				Communications: 30 mA max. Internal circuit: 290 mA max.
Max. number of connectable slaves	Remote I/O, explicit message service			63 ✻2
Maximum I/O points	Fixed allocations		When used as a master	2,048 points
			When used as a slave	32 points
	User-set allocations	Using allocated DM Area words	When used as a master	16,000 points
			When used as a slave	3,200 points
		Using Configurator	When used as a master	32,000 points
			When used as a slave	4,800 points
Number of allocated words	Fixed allocations		When used as a master	64 input and 64 output words Software switch/status area: 25 words
			When used as a slave	input word, 1 output word ✻3
	User-set allocations	Using allocated DM Area words	When used as a master	500 input and 500 output words Software switch/status area: 25 words
			When used as a slave	100 input and 100 output words ✻3 Software switch/status area: 25 words
		Using Configurator	When used as a master	500 input words x 2 blocks, 500 output words x 2 blocks Software switch/Status area: 25 words
			When used as a slave	100 input words x 1 blocks, 100 output words x 2 blocks Software switch/Status area: 25 words
Max. message length				542 bytes ✻4
Max. number of Units mountable to PLC	Fixed allocations			3
	User-set allocations			16
Weight				169 g

✻1. Refer to the *DeviceNet Operation Manual* (W267) for the communications power supply specifications.
✻2. The Device Unit uses a node, and so connection is possible to 63 slaves only.
✻3. When the DeviceNet is used as a slave, "input" and "output" respectively refer to input from the slave to the master and output from the master to the slave.
✻4. The maximum message length includes the command code when using the CMND instruction.

General Specifications

The specifications conform to the CS Series. Refer to the *CS Series Catalog* (P047) for details on CS-series specifications.

Dimensions

34.5 X 130 X 111.2 mm (W X H X D)

Programmable Controllers NSJ Series

NSJ□-T□□1(B)-G5D

The NSJ-series Controller Completely Integrates a PT and Controller into One Package

- A PT, Controller CPU Unit, and DeviceNet Master Unit are completely integrated.
- Super space-saving design.
- Easily transfer screens and ladder programming using a commercially available USB cable.
- No cable connections or complicated communications settings required. Start operation simply by turning ON the power supply.
- Equipped with troubleshooter for the Controller and DeviceNet Master as a standard feature.

Ordering Information

■ Controllers

Name	Controller Section	Display Section		Ethernet port	Model ✻
		Display device	Resolution		
NSJ Series	No. of I/O points: 1,280 Program capacity: 60K steps Data memory capacity: 128K words (DM: 32K words, EM: 32K words x 3 banks)	5.7-inch color High-luminance TFT LCD	320 X 240 (QVGA)	10/100Base-T	NSJ5-TQ11(B)-G5D
		8.4-inch color TFT LCD	640 X 480 (VGA)		NSJ8-TV01(B)-G5D
		10.4-inch color TFT LCD			NSJ10-TV01(B)-G5D
		12.1-inch color TFT LCD	800 X 600 (SVGA)		NSJ12-TS01(B)-G5D

✻ (B) in the model number indicates that the color of the Controller frame is black.

■ Accessories and Expansion Units

Name		Specifications	Model
Expansion Units	NSJ Controller Link Unit	For increasing the number of Controller Link ports Same as the CJ1W-CLK21-V1 Controller Link Unit for the CJ Series.	NSJW-CLK21-V1
	NSJ Ethernet Unit	For increasing the number of Ethernet ports Same as the CJ1W-ETN21 Ethernet Unit for the CJ Series.	NSJW-ETN21
	NSJ I/O Control Unit	For adding CJ-series Expansion Racks. Same as the CJ1W-IC101 I/O Control Unit for the CJ Series.	NSJW-IC101
Options	Memory Cards (for both Controller Section and Display Section)	Flash memory: 128 MB	HMC-EF183
		Flash memory: 256 MB	HMC-EF283
		Flash memory: 512 MB	HMC-EF583
		Memory Card Adapter	HMC-AP001

■ Support Software

Product name	Specifications			Model	Standards
		Number of licenses	Media		
CX-One FA Integrated Tool Package Ver. 4.□	The CX-One is a package that integrates the Support Software for OMRON PLCs and components. CX-One runs on the following OS. Windows XP (Service Pack 3 or higher, 32-bit version) / Windows Vista (32-bit/64-bit version) / Windows 7 (32-bit/64-bit version) / Windows 8 (32-bit/64-bit version) / Windows 8.1 (32-bit/64-bit version) **Note:** Except for Windows XP 64-bit version. CX-One Ver.4.□ includes CX-Designer Ver.3.□ For details, refer to the CX-One catalog (Cat. No. R134).	1 licence ✻	DVD	**CXONE-AL01D-V4**	---

✻ Multi licenses are available for the CX-One (3, 10, 30, or 50 licenses).

Specifications

Model	Built-in ports					Display Section			
	USB port (Slave: For Support Software)	RS-232C port	DeviceNet port	Ethernet port	USB port (Host: For printer)	Display color	Field of view	Language	Standard screen data capacity
NSJ5-TQ11-G5D	1 port	3 ports • Display Section: Serial ports A, B • Controller Section: Serial port	1 port	10/100Base-T	None	256 colors (BMP/JPEG, 32,768 colors for images)	Right/left: ±70°, Top: 70°, Bottom: 50°	Eight languages ✻	60 MB
NSJ5-TQ11B-G5D									
NSJ8-TV01-G5D					1 port		Right/left: ±65°, Top: 50°, Bottom: 60°		
NSJ8-TV01B-G5D									
NSJ10-TV01-G5D							Right/left: ±60°, Top: 35°, Bottom: 65°		
NSJ10-TV01B-G5D									
NSJ12-TS01-G5D							Right/left: ±60°, Top: 45°, Bottom: 75°		
NSJ12-TS01B-G5D									

✻ Japanese, English, Chinese (traditional and simplified), Spanish, Italian, German, and French.