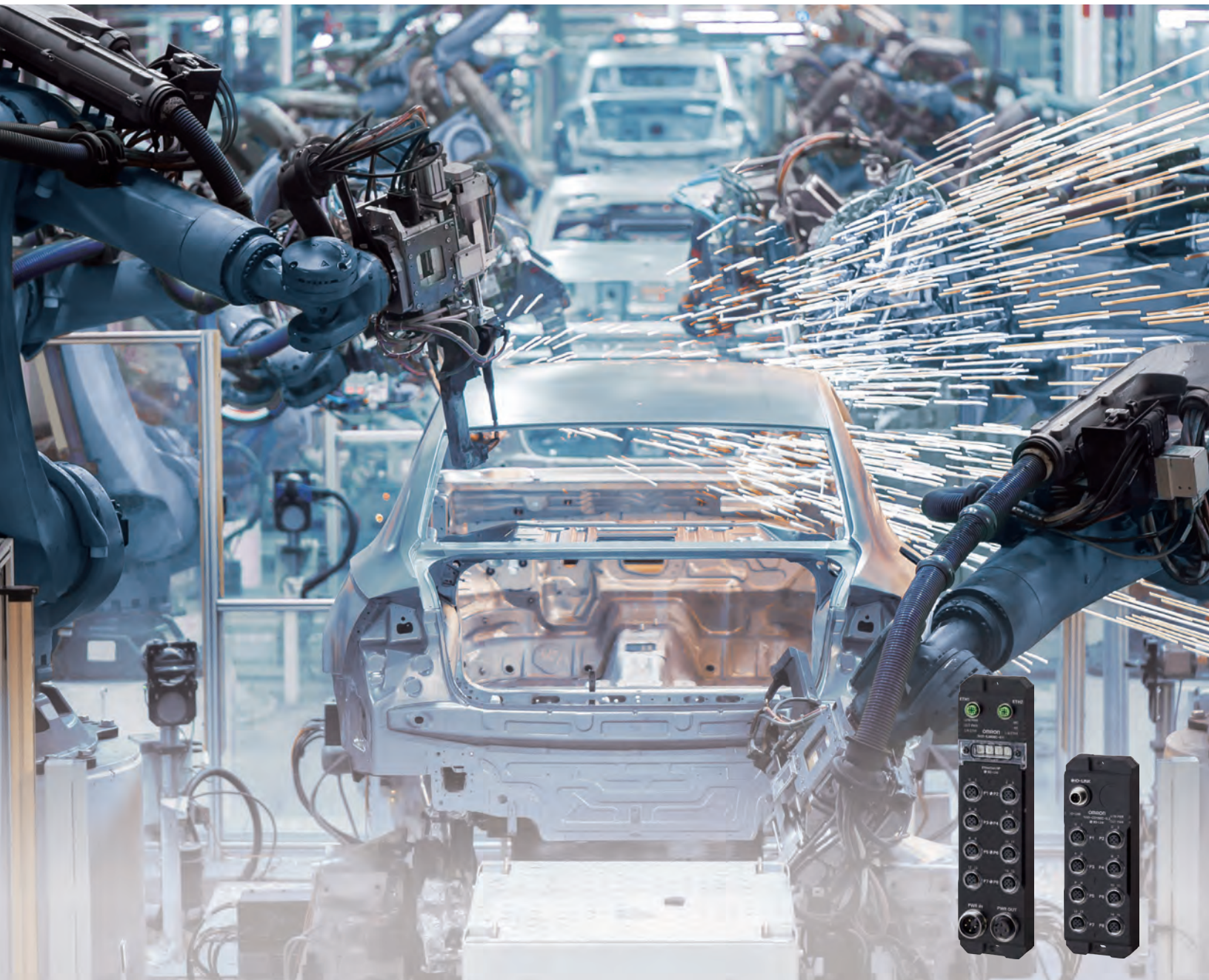
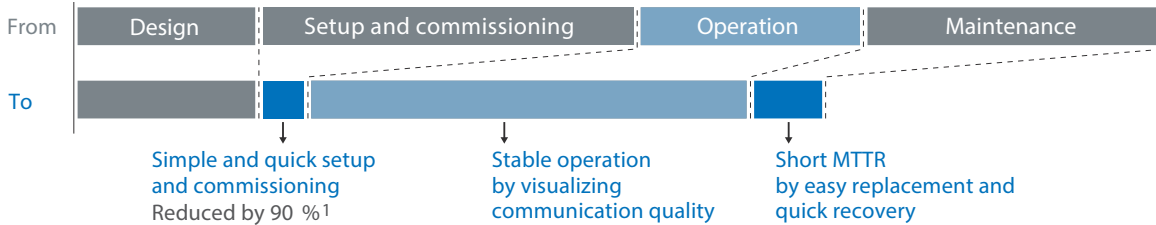


A Ruggedized Remote Terminal that Simplifies IIoT Adoption



Reduce commissioning and maintenance time by 90%¹

Manufacturers are increasingly adopting modern networking technologies to address the chronic shortage of engineers with the right skill sets. Since conventional methods don't always work, production floors are seeing a rise in certain problems such as an increase in mean time to repair (MTTR). The NXR addresses these issues by means of time-saving functions that Omron developed after thoroughly analyzing production processes to determine which tasks were unnecessary and inefficient.



IP67 Remote Terminal

No control panel required



EtherNet/IP

- Built-in L2 switching hub

IO-Link

Selectable by setting

- 8 IO-Link ports
- 16 digital inputs/outputs

7/8-inch connector

- I/O power supply, unit power supply
- Through-wiring

IO-Link Master Unit



LED indicator:
Color universal design

Enlarged view of I/O connector



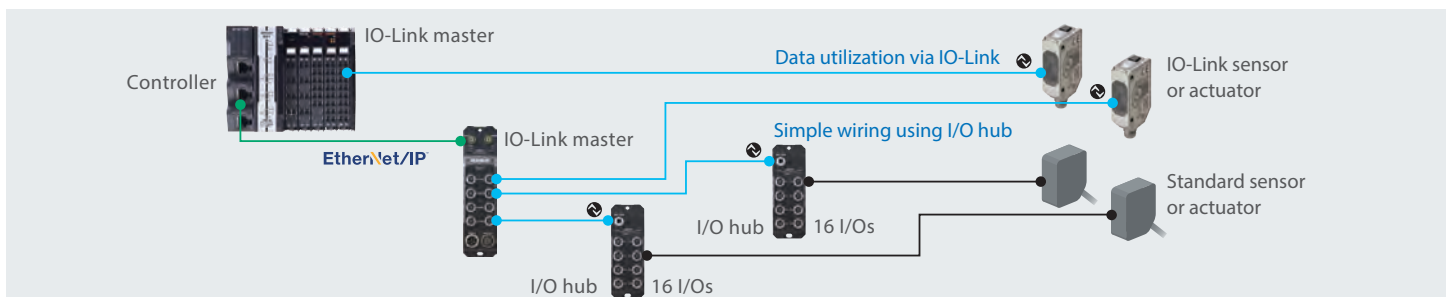
IO-Link

- 16 digital inputs
- or
- 16 digital inputs/outputs

IO-Link I/O Hub

A user-friendly system that reduces wiring

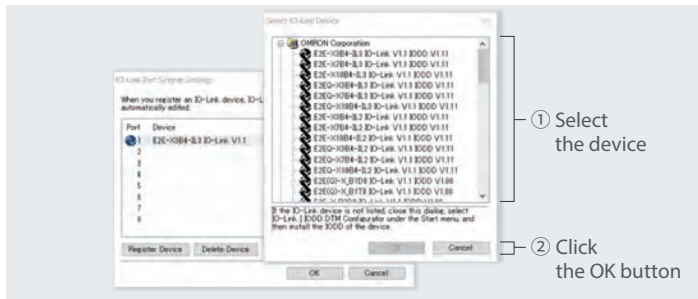
IO-Link hub simplifies wiring and increases data utilization capabilities.



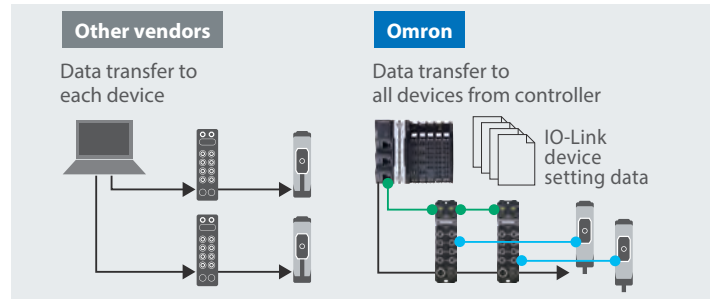
Simple and quick setup and commissioning

NXR setup time is reduced by 90%¹ thanks to the configuration tool's automatic setting of IO-Link parameters and the ability to transfer remote terminal and IO-Link device settings from the controller.

¹ Compared with Omron's NX Series in May 2020.



Select devices to update all parameters at the same time. Simple configuration prevents human errors.



Configuring all devices at once from the controller eliminates the need to configure each device individually, greatly reducing setup time.

A simple way to monitor network health

Quantified Ethernet and IO-Link communication statuses allow you to find network cabling errors before operation. During operation, the communication statuses can be monitored, making it possible to check the system before it suddenly stops.

[Case study]
Error count of terminal B

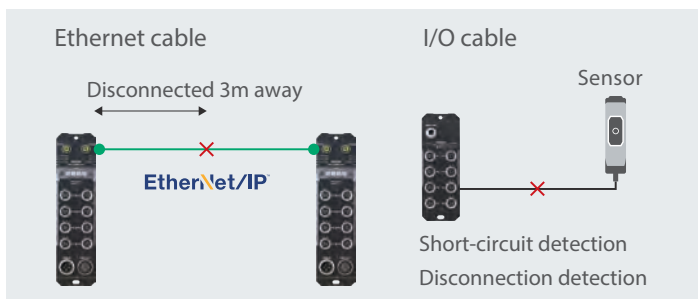
Communication error count

Terminal	Total communication error count
Terminal A	0
Terminal B	14
Terminal C	0

Easy replacement and quick recovery shortens MTTR

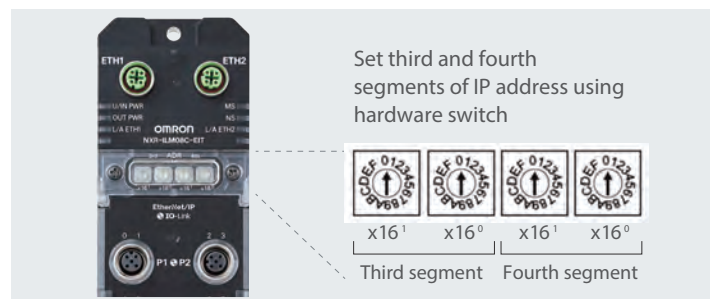
I/O cable and communication cable diagnostics

The remote terminal reports approximate locations of disconnections or short circuits in Ethernet cables, and detects disconnections or short circuits in I/O cables.



No software needed for replacement

The IP address can be set using the hardware switch, without using special software.



Ordering Information

Product name	Number of IO-Link ports	Degree of protection	Port connection	Model
IO-Link Master Unit for EtherNet/IP	8	IP67	M12 connector (A-cording, female)	NXR-ILM08C-EIT
Product name	Number of inputs/outputs	Degree of protection	I/O connector	Model
IO-Link I/O Hub	16 inputs	IP67	8 M12 connectors (A-cording, female)	NXR-ID166C-IL2
	16 inputs/outputs			NXR-CD166C-IL2

Specifications

Product name	Item		Specification
IO-Link Master Unit for EtherNet/IP	EtherNet/IP communications	Baud rate, Ethernet physical layer	10 Mbps/100 Mbps, 100BASE-TX/10BASE-T
		Ethernet switch	Layer 2 Ethernet switch
		Functions	Communication cable diagnostics
			Network statistical information acquisition
			QuickConnect
	IO-Link port	Connector, number of ports	Class A, 8 ports
		Baud rate	COM1: 4.8 kbps, COM2: 38.4 kbps, COM3: 230.4 kbps
	Digital inputs in SIO (DI) Mode	Number of inputs	16
		Short-circuit protection, short-circuit detection	Provided
	Digital outputs in SIO (DI) Mode	Number of outputs	16
Short-circuit protection, short-circuit detection		Provided	
Product name	Item		Specification
IO-Link I/O Hub	IO-Link	Baud rate	COM2: 38.4 kbps
	Digital inputs	Number of inputs	16 (digital input hub), 0 to 16 (digital input/output hub)
		Short-circuit protection, short-circuit detection, disconnection detection	Provided
	Digital outputs	Number of outputs	0 to 16 (digital input/output hub)
		Short-circuit protection, short-circuit detection, disconnection detection	Provided

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