SMC®

Wireless System
EX600-W Series

NEW

Safe Wireless Communication Device

CE RoHS **PROFI NET®**

EtherNet/IP™

Material Handling Robot

Wireless Master

Wireless Slave

Spot Welding

Wireless Slave

Wireless Master Unit   **Wireless Slave Unit**

Countries in which wireless is supported
This product cannot be used in countries where wireless is not supported.

Country	Standard
Japan	(Japanese Radio Law)
EU	CE (CE marking/RE Directive)
USA	FC (FCC)
Brazil	ANATEL (Anatel)
Mexico	(MRA)

Noise Resistance
Uses the 2.4 GHz ISM frequency band
Frequency Hopping: Every 5 ms

High-speed Connection
From power supply ON to start of communication
Min. 250 ms For wireless slave
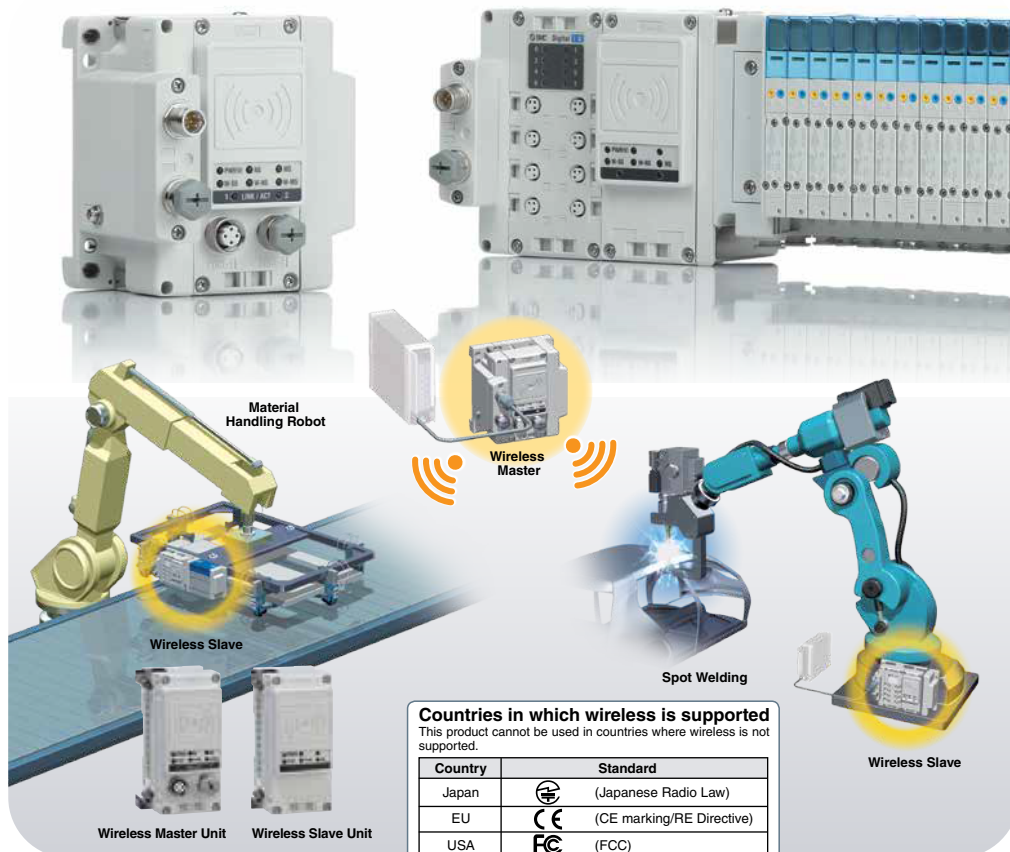
Communication Response
Signal response time: **5 ms**

Communication Cables not Required
Reduced wiring work, space, and cost
Minimized disconnection risk

Number of I/O points
Max. 1280 inputs/1280 outputs
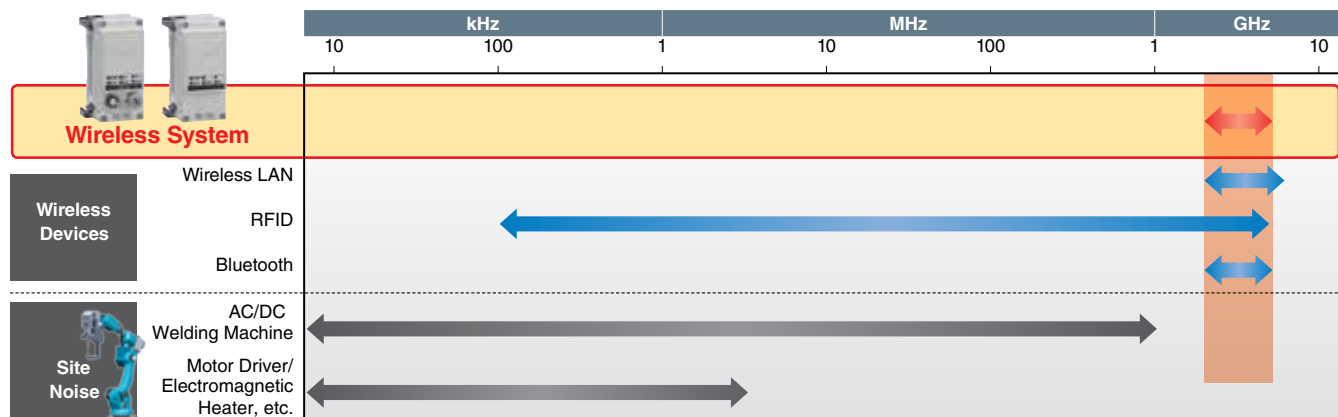(Registration and communication of up to 127 slave units is possible.)

Provide Safe and Reliable Communication

Uses the 2.4 GHz ISM frequency band

	kHz		MHz		GHz
	10 100	1	10 100	1	10

Wireless System

Wireless Devices
- Wireless LAN
- RFID
- Bluetooth

Site Noise
- AC/DC Welding Machine
- Motor Driver/ Electromagnetic Heater, etc.

* ISM (Industrial, Scientific and Medical) radio bands: Radio bands reserved for the use of radio frequency energy for industrial, scientific and medical purposes.
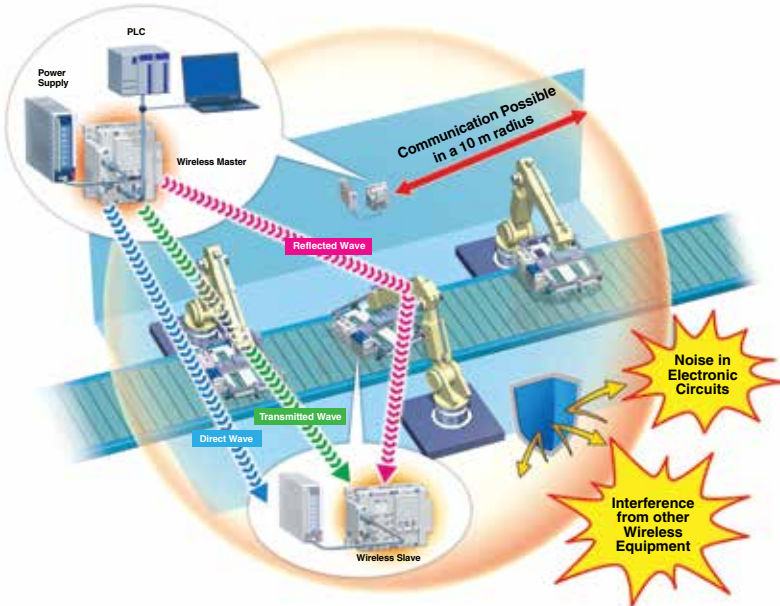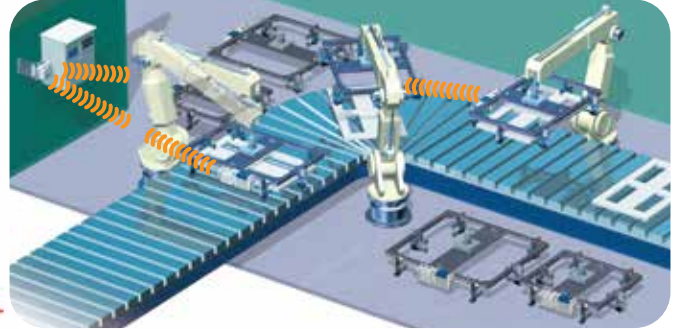
NP362-A

Application Examples

Provide Stable Communication

Communications using Various Forms of Radio Wave Propagation

PLC

Power Supply

Wireless Master

Communication Possible in a 10 m radius

Reflected Wave

Transmitted Wave

Direct Wave

Wireless Slave

Noise in Electronic Circuits
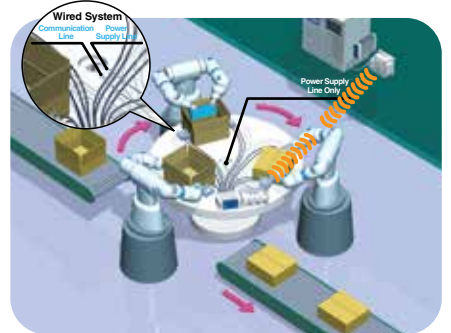
Interference from other Wireless Equipment

Tool Change

- Communication cable is not necessary for moving parts.
- Minimized disconnection risk
- Shorter time for establishing communication (startup time)

Rotary Table

- Minimized disconnection risk
- Smaller diameter communication cable/tubing

Wired System
Communication Line   Power Supply Line

Power Supply Line Only

Blocking of Radio Waves

- The radio waves must not be blocked by nearby conductive objects such as metal enclosures or covers

Item		Specification
Communication	Communication Protocol	EtherNet/IP, PROFINET
	Communication Speed	10 Mbps/100 Mbps
Wireless Communication	Communication Distance	10 m (Depending on the operating environment
	Communication Speed	10 m Mbps / 100 Mbps
Inout/Output	Number of Inputs	Max. 1280 pts together with the registered slave units
	Number of Outputs	Max. 1280 pts together with the registered slave units
General	Enclosure	IP67 equivalent (with manifold assembled)
	Standards	CE marking, RoHS compliant
	Weight	300 g

How to Order

SI Unit

Wireless Master Unit   Wireless Slave Unit

EX600–W☐☐☐

Wireless Compatible

Output Type

Symbol	Specifications
1	Valve output type: PNP (-COM)
2	Valve output type: NPN (+COM)

SI Unit

Symbol	Specifications	Note
EN	Wireless Master Unit	For EtherNet/IP™
PN	Wireless Master Unit	For PROFINET
SV	Wireless Slave Unit	—