

Wireless LAN Adapter





Use of wireless LAN makes FA network system comfortable!



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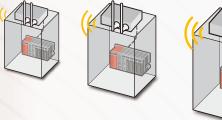
Powered by CONTEC

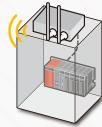


Point Convenient Commerce

Wireless LAN makes shop processes easy and handy!

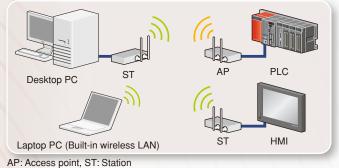
- Easy to work without being bothered by cable routing.
- Provides flexibility in installing new line or alteration layouts.
- Wireless saves your wiring costs.





Simply installing wireless LAN adapters makes existing FA equipment wireless.

- Easy to make existing network wireless.
- Easy to network PLCs and HMIs.



Prevents unauthorized access of eavesdropping and data falsification!

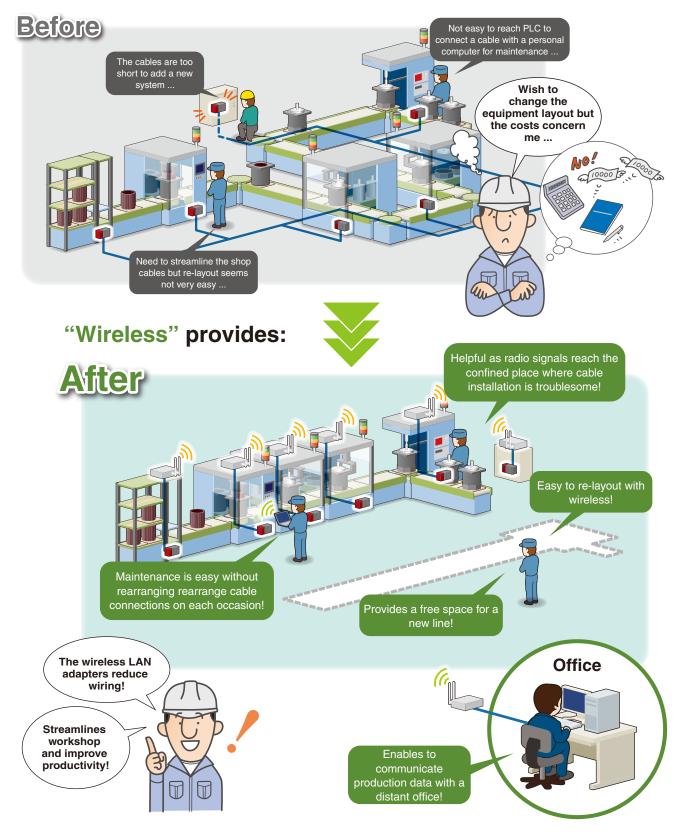
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Compatible with the latest security standards of WPA2/WPA.
 The security prevents unauthorized access from outside.

POINT 1 Convenient!

Wireless LAN makes shop processes easy and handy!

- Easy to work without being bothered by cable routing.
- Provides flexibility in installing new line or alteration layouts.
- ▶ Wireless saves the wiring costs.

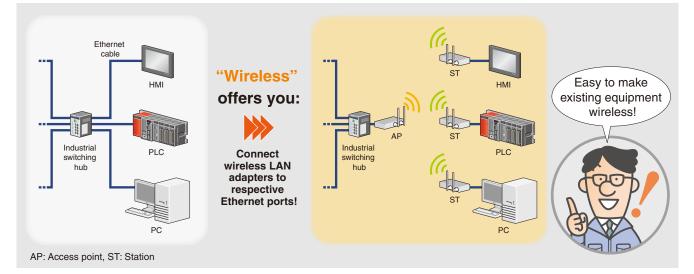


POINT 2 Simple!

Simply installing wireless LAN adapters makes existing FA equipment wireless.

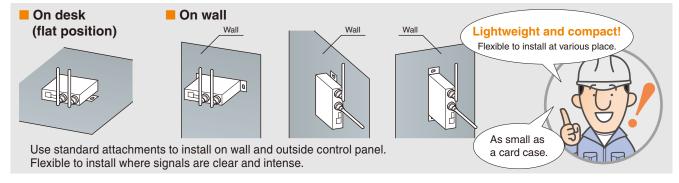
Wireless comes easy

- Easy to make existing network wireless.
- Easy to network PLCs and HMIs.



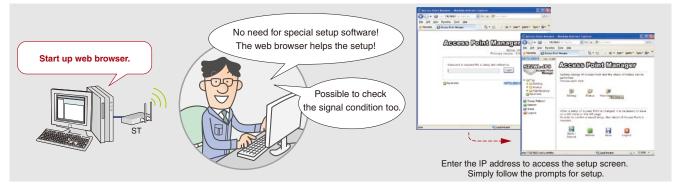
Easy to install

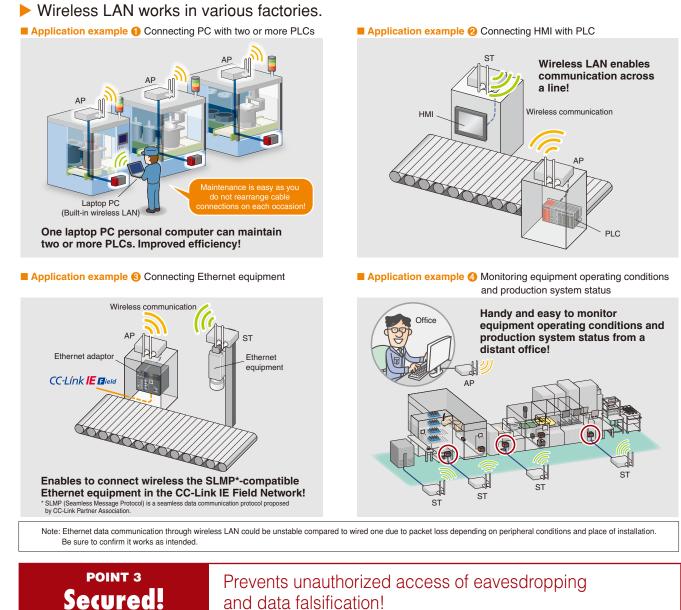
- Easy to install. Also, flexible to install depending on control panel orientation and shop layout.
- Lightweight and compact. Flexible to install at various place.
- Accommodates wide input power supply (12 to 24 VDC). Easy to use.



Easy to set up

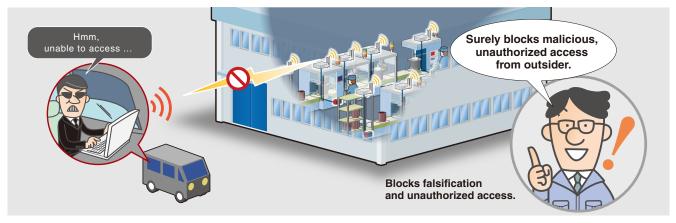
Easy setup with web browser. No need for special setup software.





and data falsification!

- Compatible with the latest security standards of WPA2/WPA.
- The security prevents unauthorized access from outside.



Connectable Equipment

The following FA products can be connected.*1

Туре	Model					
	MELSEC-Q Series Ethernet Interface Module (for 10BASE-T/100BASE-TX)					
	CC-Link IE Field Network Ethernet Adapter Module *2					
Programmable	Industrial Switching HUB					
Controller	MELSEC-Q Series CPU Module (with Built-in Ethernet)					
	MELSEC-L Series CPU Module					
	C Controller Module					
	High Speed Data Logger Module					
нмі	GOT1000 Series (with Built-in Ethernet)					
ниі	GOT1000 Series Ethernet Communication Unit					
	Motion Controller Q Series Motion CPU Module					
Motion Controller	Motion Controller Q Series Motion CPU Module (for the iQ Platform)					
	Motion Controller Q Series Stand-Alone Motion Controller					
	MITSUBISHI CNC M700/M70 Series					
CNC	MITSUBISHI CNC M700V/M70V Series					
	MITSUBISHI CNC C70 Series					
	RV-SQ Series					
	RH-SQ Series					
Industrial Robot	RV-SD Series					
	RH-SD Series					
	RH-F Series					

Туре	Model					
	GX Works2					
	GX LogViewer					
-	GX IEC Developer					
	MX Component					
	MX Sheet					
	PX Developer					
	PX Developer Monitor Tool					
oftware	LCPU Logging Configuration Tool					
-	C Controller Module Setting / Monitoring Tool					
	CW Workbench					
	High Speed Data Logger Module Configuration Tool					
	GT Works3					
	MT Works2					
	CNC Remote Operating Tool (NC Monitor/NC Explorer)					
	RT ToolBox2					

*1 Do not use this product for applications that must transmit or update data regularly or within a given time period, such as the cyclic transmission of a programmable controller. This shows the products that can be connectable as of November 2011. As the connectable products are increasing in number, consult your local Mitsubishi Electric branch office for update or see the product manual.

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*2 The NZ2WL series can be connected only to the Ethernet part of this module. The NZ2WL series cannot be connected to the CC-Link IE Field Network part of this module.

	Spec	ifications				
Item			Specification			
	Ethernet standard		IEEE802.3(10BASE-T), IEEE802.3u(100BASE-TX)			
Wired LAN	Data transfer speed		10/100Mbps			
	Access method		CSMA/CD			
	Communication type		Half Duplex, Full Duplex			
	Number of ports		1 (10BASE-T/100BASE-TX)			
		Transmission format	IEEE802.11a-compliant OFDM (Orthogonal Frequency Division Multiplexing)			
		Channel	Differs from one country to another. See the list of channels for each country.			
	IEEE802.11a	Data transfer speed *2	54, 48, 36, 24, 18, 12, 9, 6Mbps (Fixed/Auto)			
	ILLLOUZ.IIa	Aerial power	10mW/MHz or less			
		Security	WEP, WPA-PSK (AES, TKIP), WPA2-PSK (AES, TKIP), AES-OCB, WSL (Proprietary encryption) AP only : WPA (AES, TKIP), WPA2 (AES, TKIP), MAC address filtering, IEEE802.1X (EAP-TLS, PEAP)			
_		Transmission format	IEEE 802.11b-compliant DSSS			
Nire		Channel	Differs from one country to another. See the list of channels for each country.			
Wireless LAN	IEEE802.11b	Data transfer speed *2	11, 5.5, 2, 1Mbps (Fixed/Auto)			
Ā	ILLLOUZ.TID	Aerial power	10mW/MHz or less			
×1		Security	WEP, WPA-PSK (AES, TKIP), WPA2-PSK (AES, TKIP), AES-OCB, WSL (Proprietary encryption) AP only : WPA (AES, TKIP), WPA2 (AES, TKIP), MAC address filtering, IEEE802.1X (EAP-TLS, PEAP)			
		Transmission format	IEEE802.11g-compliant OFDM (Orthogonal Frequency Division Multiplexing)			
		Channel	Differs from one country to another. See the list of channels for each country.			
	IEEE802.11g	Data transfer speed *2	54, 48, 36, 24, 18, 12, 9, 6Mbps (Fixed/Auto)			
	ILLLOUZ. I Ig	Aerial power	10mW/MHz or less			
		Security	WEP, WPA-PSK (AES, TKIP), WPA2-PSK (AES, TKIP), AES-OCB, WSL (Proprietary encryption) AP only : WPA (AES, TKIP), WPA2(AES, TKIP), MAC address filtering, IEEE802.1X (EAP-TLS, PEAP)			
Anter	Antenna		Diversity dipole antenna			
Exter	nal Dimensions (mr	n)	25(W) x 68(D) x 97(H) (Not including antenna and other projecting parts)			
Weig	ht(g)		250g			

*1 Does not guarantee inter-connectivity with other vendors' Wi-Fi products.

*2 These are theoretical values based on their respective wireless LAN standards. They do not indicate actual data transfer rates.

List of Country Channels

	Channel							
Standard	Japa	an*1	U.S.A.*1	Europe*1	China*1	Korea*1	Taiwan*1	
Standard	NZ2WL-JPA (Access point)	NZ2WL-JPS (Station)	NZ2WL-US*2	NZ2WL-EU*2	NZ2WL-CN*2	NZ2WL-KR*2	NZ2WL-TW*2	
IEEE802.11a	8ch (36, 40, 44, 48ch[W52], 52, 56, 60, 64ch[W53])	12ch (34, 38, 42, 46ch[J52], 36, 40, 44, 48ch[W52], 52, 56, 60, 64ch[W53])	9ch (36, 40, 44, 48, 149, 153, 157, 161, 165ch)	4ch (36, 40, 44, 48ch)	5ch (149, 153, 157, 161, 165ch)	7ch (36, 40, 44, 149, 153, 157, 161ch)	5ch (149, 153, 157, 161, 165ch)	
IEEE802.11b	14ch(1-14ch) 13ch(1-13ch)		- 11ch(1 - 11ch)	13ch(1 - 13ch)	13ch(1 - 13ch)	13ch(1 - 13ch)	11ch(1 - 11ch)	
IEEE802.11g								

*1 Each product can be used only in the respective countries.

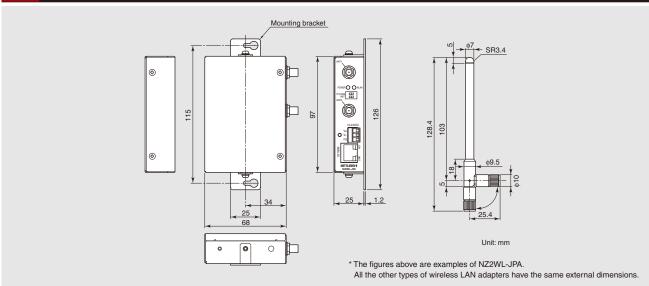
*2 Supported both Access point and Station. They can be used by changing the setting.

Software Specifications					
Item	Specification				
Protocols	IP(RFC791), ICMP(RFC792), UDP(RFC768), TCP(RFC793,896), ARP(RFC826), HTTPD(RFC1866), TELNET(RFC854), FTPD(RFC959), TFTP(RFC783,906), DHCP(RFC2131), SNTP(RFC1361), SNMP(RFC1067)				

Installation Environment Requirements (Environmental Specifications)

Item	Specification			
Input voltage range	12 - 24VDC±5%			
Rating input current	0.4A(at 12VDC input), 0.2A(at 24VDC input) (Max.) Fuse /2.0A non-user serviceable (Rated interrupting current: 50A)			
Operating ambient temperature	0 - 50°C			
Operating ambient humidity	10 - 90%RH (No condensation)			
Floating dust particles	Tolerant of small amounts (non excessive)			
Corrosive gases	None			

External Dimensions



Product List

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Product name		Model	Outline			
	Japan	Access point	NZ2WL-JPA	Conforms to IEEE 802.11a (W52/ W53), IEEE 802.11b, IEEE 802.11g standards		
		Station	NZ2WL-JPS	Conforms to IEEE 802.11a (J52/ W52/ W53), IEEE 802.11b, IEEE 802.11g standards		
	U.S.A.		NZ2WL-US	Conforms to IEEE 802.11a, IEEE 802.11b, IEEE 802.11g standards		
Wireless LAN Adapter	Europe		NZ2WL-EU	Conforms to IEEE 802.11a, IEEE 802.11b, IEEE 802.11g standards		
Adapter	China		NZ2WL-CN	Conforms to IEEE 802.11a, IEEE 802.11b, IEEE 802.11g standards		
	Korea		NZ2WL-KR	Conforms to IEEE 802.11a, IEEE 802.11b, IEEE 802.11g standards		
	Taiwan		NZ2WL-TW	Conforms to IEEE 802.11a, IEEE 802.11b, IEEE 802.11g standards		

Related products		
Product name	Model	Outline
Industrial switching HUB	NZ2EHG-T8	10 Mbps/100 Mbps/1 Gbps AUTO-MDIX, DIN rail mountable, 8 ports
	NZ2EHF-T8	10 Mbps/100 Mbps AUTO-MDIX, DIN rail mountable, 8 ports

The wireless LAN adapters and industrial switching hubs were developed and are produced with CONTEC Co., ltd. Please note that the general specifications and guarantee conditions of these products are different from those of programmable logic controllers (such as MELSEC-Q and L series).

Mitsubishi Electric Corporation Nagoya Works is a factory certified for ISO14001 (standards for environmental management systems) and ISO9001(standards for quality assurance management systems)



Mitsubishi Electric Wireless LAN Adapter

Precautions before use

This publication explains the typical features and functions of the products herein and does not provide restrictions and other information related to usage and module combinations. Before using the products, always read the product user manuals. Mitsubishi Electric will not be held liable for damage caused by factors found not to be the cause of Mitsubishi Electric products; damage, secondary damage, or accident compensation, whether foreseeable or not, caused by special factors; damage to products other than Mitsubishi Electric products; and to other duties.

\Lambda For safe use

- To use the products given in this publication properly, always read the relevant manuals before use.
- The products have been manufactured as general-purpose parts for general industries, and have not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the products for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi.
- The products have been manufactured under strict quality control. However, when
 installing the products where major accidents or losses could occur if the products fail,
 install appropriate backup or fail-safe functions in the system.

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