

PLC APPLICATION

USB, RS232/422/485 Serial, Modbus & Modbus/TCP, CAN
PROFINET, Ethernet, Digital Input/Output



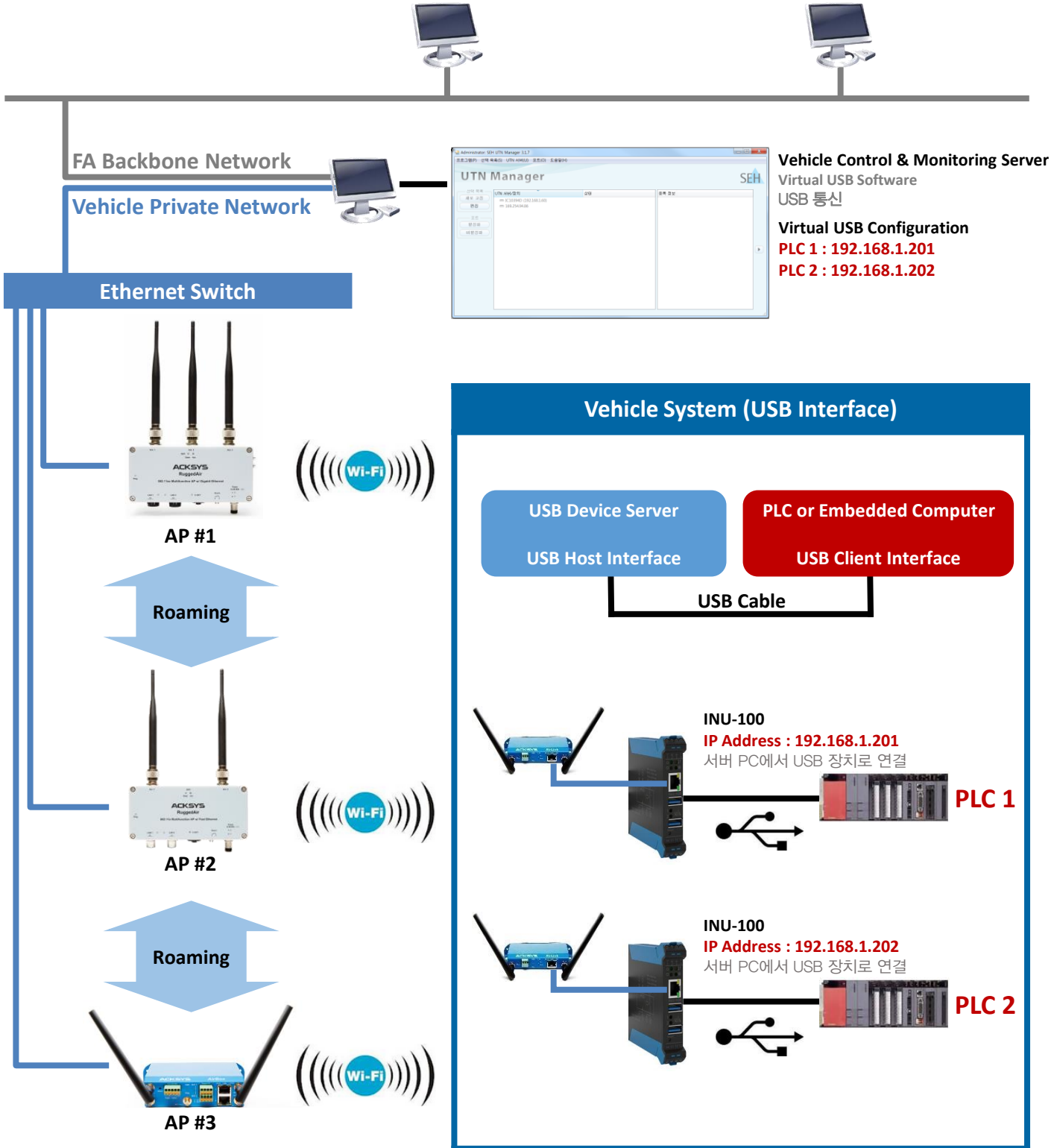
PLC Solution

USB to TCP/IP

PLC, HMI, PC 와 같은 장치의 USB 인터페이스를 TCP/IP 네트워크를 통해 원격 시스템에 연결합니다. 기존에 사용 하던 USB 기반의 통신 프로그램을 그대로 사용할 수 있으며 10/100/1000 Mbps 유선랜 및 Wi-Fi 무선랜을 사용하여 거리 제한 없이 USB 장치를 연결할 수 있습니다.

Remote Monitoring System #1

Remote Monitoring System #2



PLC Solution

Ethernet to Wireless

일반적인 이더넷 장치 및 Modbus/TCP, PROFINET, 장치를 Wi-Fi 무선 네트워크로 연결합니다. 이동하는 설비에 장착된 PLC 에서도 안정적인 무선 네트워크를 구성할 수 있으며, Fast Roaming 기능을 사용하여 여러 개의 AP 사이를 이동할 때도 끊김 없이 데이터를 송수신할 수 있습니다.

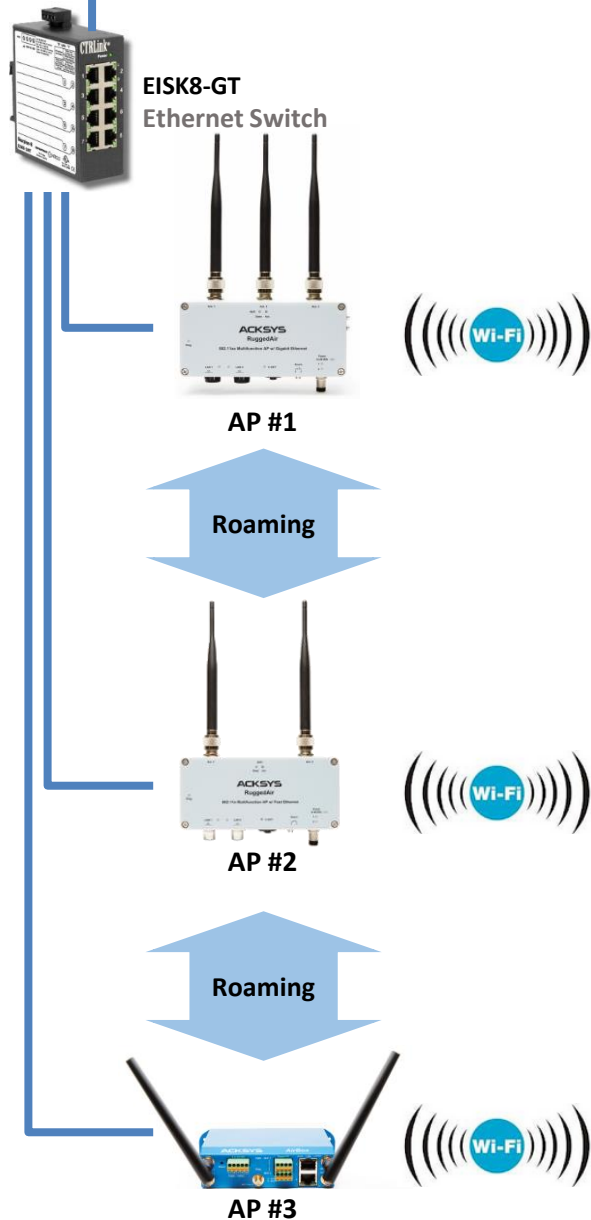
Remote Monitoring System #1



Remote Monitoring System #2



10/100/1000 Mbps Ethernet



Ethernet to Wireless Bridge

Ethernet Bridge

PLC or Embedded Computer

Direct/Cross Ethernet Cable



RuggedAir1000

802.11a/b/g/n/ac Wi-Fi, 3T3R MIMO
Dual 1Gbps Ethernet, Dual 12~36VDC Power Input
IP66 방수/방진 규격



RuggedAir100

802.11a/b/g/n Wi-Fi, 2T2R MIMO
Dual 10/100Mbps Ethernet, Dual 9~48VDC Power Input
IP66 방수/방진 규격



AirXroad

802.11a/b/g/n Wi-Fi, 2T2R MIMO
1Gbps Ethernet, 9~48VDC Power Input
IP66 방수/방진 규격, 소형크기



AirBox

Dual Radio 802.11a/b/g/n Wi-Fi, 2T2R MIMO
802.11a/b/g/n/ac Wi-Fi, 3T3R MIMO
Dual 1Gbps Ethernet, Dual 9~48VDC Power Input



AirLink

802.11a/b/g/n Wi-Fi, 2T2R MIMO
1Gbps Ethernet, 9~48VDC Power Input
실내용, 소형크기



WLg-SWITCH

802.11a/b/g Wi-Fi, Dual Diversity Antenna
8 x 10/100Mbps Ethernet, Dual 9~72VDC Power Input
실내용



WLg-4LAN

802.11a/b/g Wi-Fi, Dual Diversity Antenna
4 x 10/100Mbps Ethernet, 9~48VDC Power Input
실내용, 소형크기

PLC Solution

RS232/422/485 Serial to TCP/IP

RS232/422/485 시리얼 데이터를 10/100/1000Mbps 유선랜 및 Wi-Fi 무선랜을 사용하여 전송합니다. 기본적인 TCP/IP 소켓 통신과 가상 시리얼 포트를 지원하며 TCP/IP 네트워크를 사용하여 1:32 멀티드롭 네트워크를 구성할 수 있습니다.



Remote Control & Monitoring System
 TCP/UDP socket communication
 Server or Client Mode
 Virtual COM Mode

Wired Serial Device Server



ANIO-SE
 10/100 Mbps Ethernet
 RS232/422/485 Serial, Surge Protection
 9~30VDC Power Input

10/100/1000 Mbps Ethernet



EISK8-GT
 Ethernet Switch



AP #1



AP #2



AP #3



Vehicle System (Serial Device Server Mode)

Serial Device Server
 TCP/UDP Socket
 Server or Client

PLC or Embedded Computer
 RS232/422/485 Interface

Serial Cross Cable



WLg-xROAD/S
 802.11a/b/g Wi-Fi, Single Antenna
 RS232/422/485 Serial, Surge Protection
 9~50 VDC Power Input
 IP65 방수/방진 규격

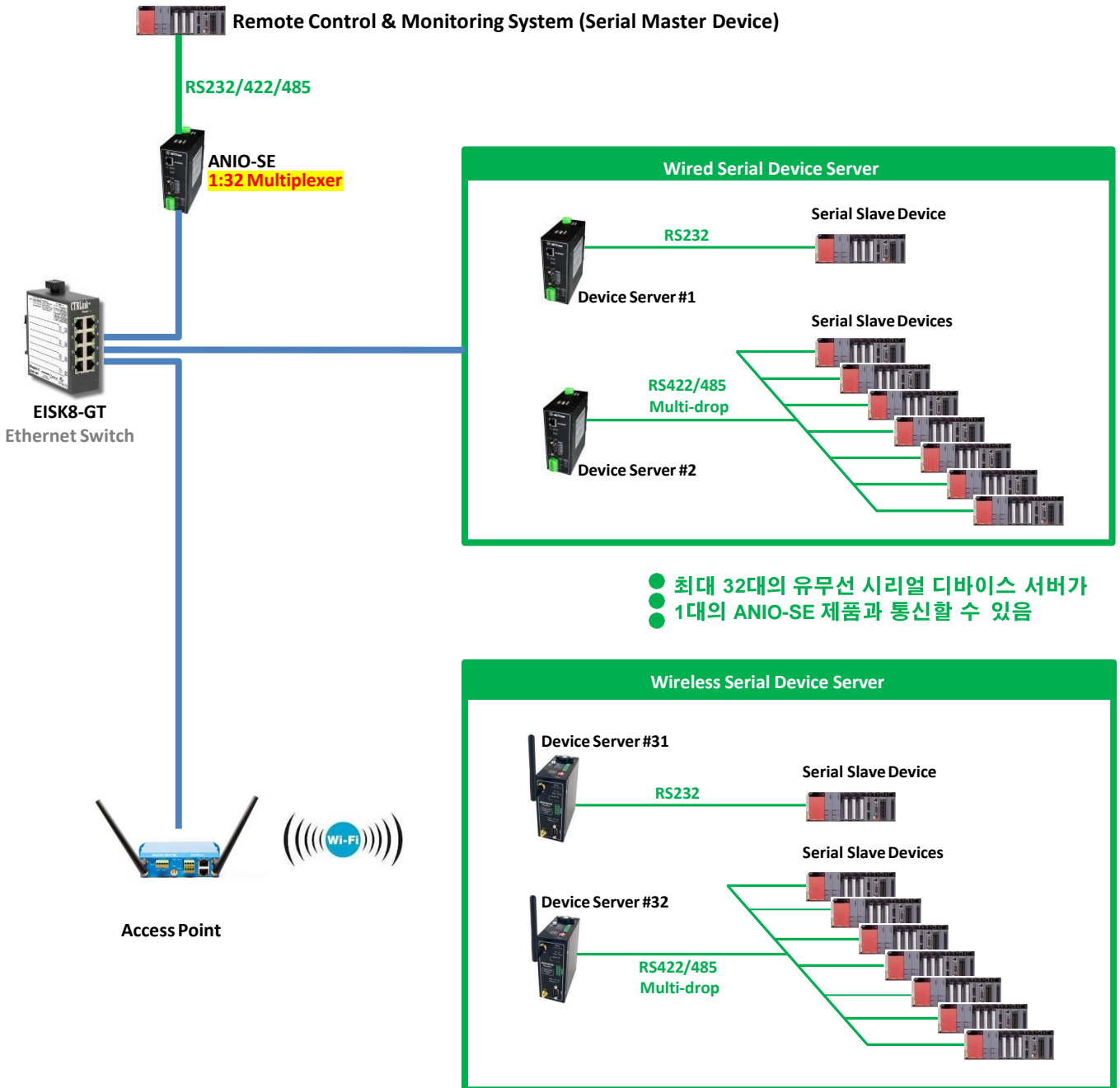


WLg-DONGLE
 802.11a/b/g Wi-Fi, Single Antenna
 RS232 Serial Only
 5 VDC Power Input Only
 실내용, 소형 크기

PLC Solution

1:N Serial Communication over TCP/IP

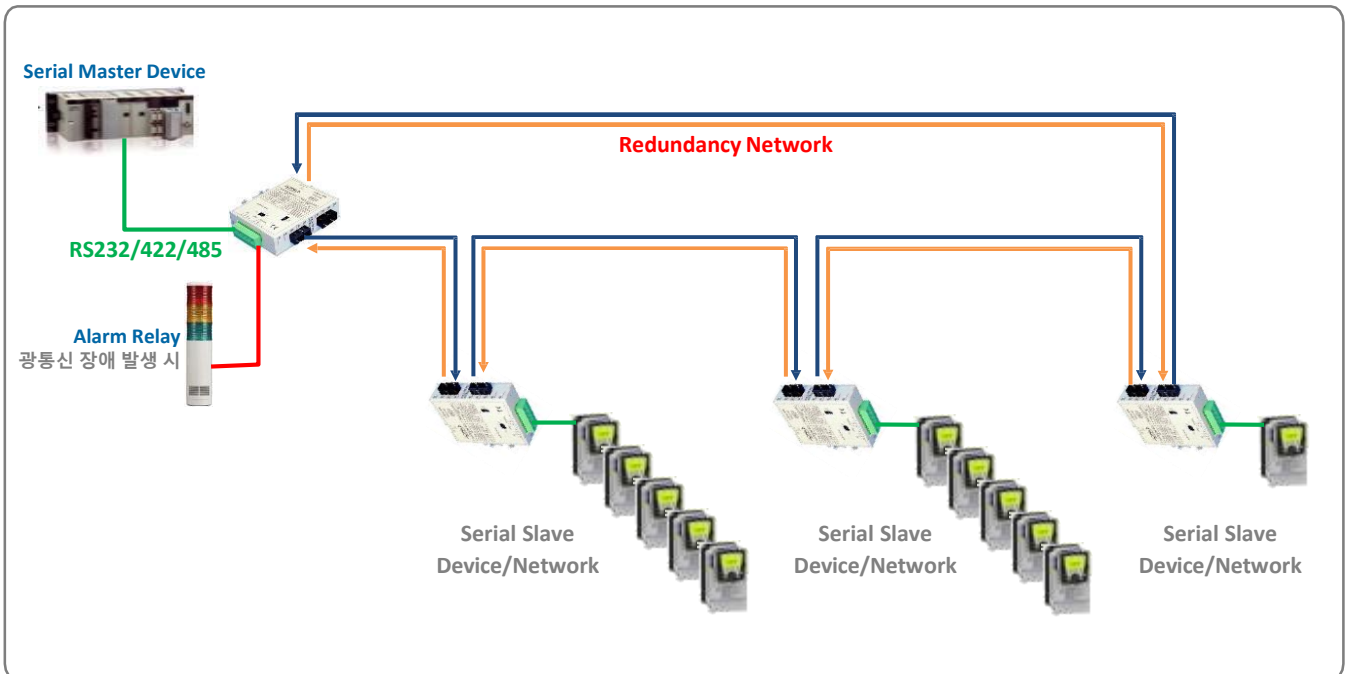
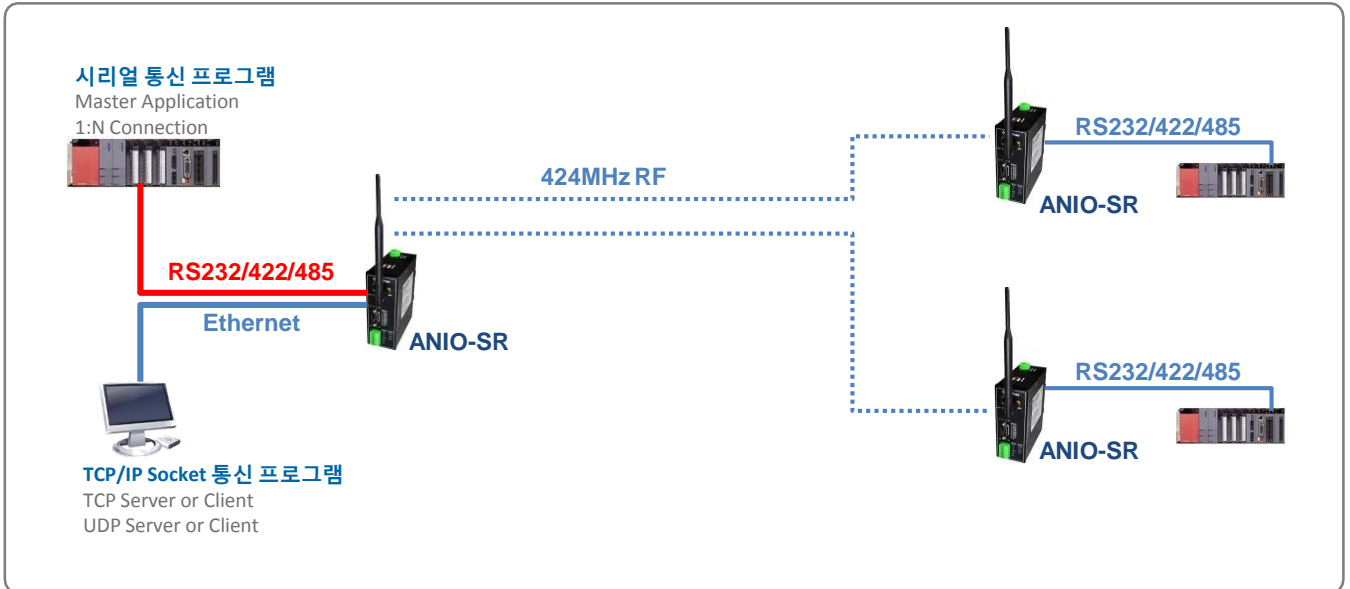
RS232/422/485 시리얼 멀티드롭 네트워크를 10/100/1000 Mbps 유선랜 및 Wi-Fi 무선랜을 사용하여 연결합니다. 최대 1:32 멀티드롭 네트워크를 연결할 수 있으며 노이즈 및 통신 거리에 제약받지 않습니다.



PLC Solution

RS232/422/485 Serial to RF & Fiber-optic

RS232/422/485 시리얼 데이터를 424 MHz RF 무선, 광통신을 사용하여 전송합니다. 저용량 시리얼 데이터를 장거리로 전송해야 할 경우 424 MHz RF 통신이 주로 사용되며, 광통신은 노이즈가 많은 환경에서도 장거리 고속 데이터 전송을 가능하게 합니다.



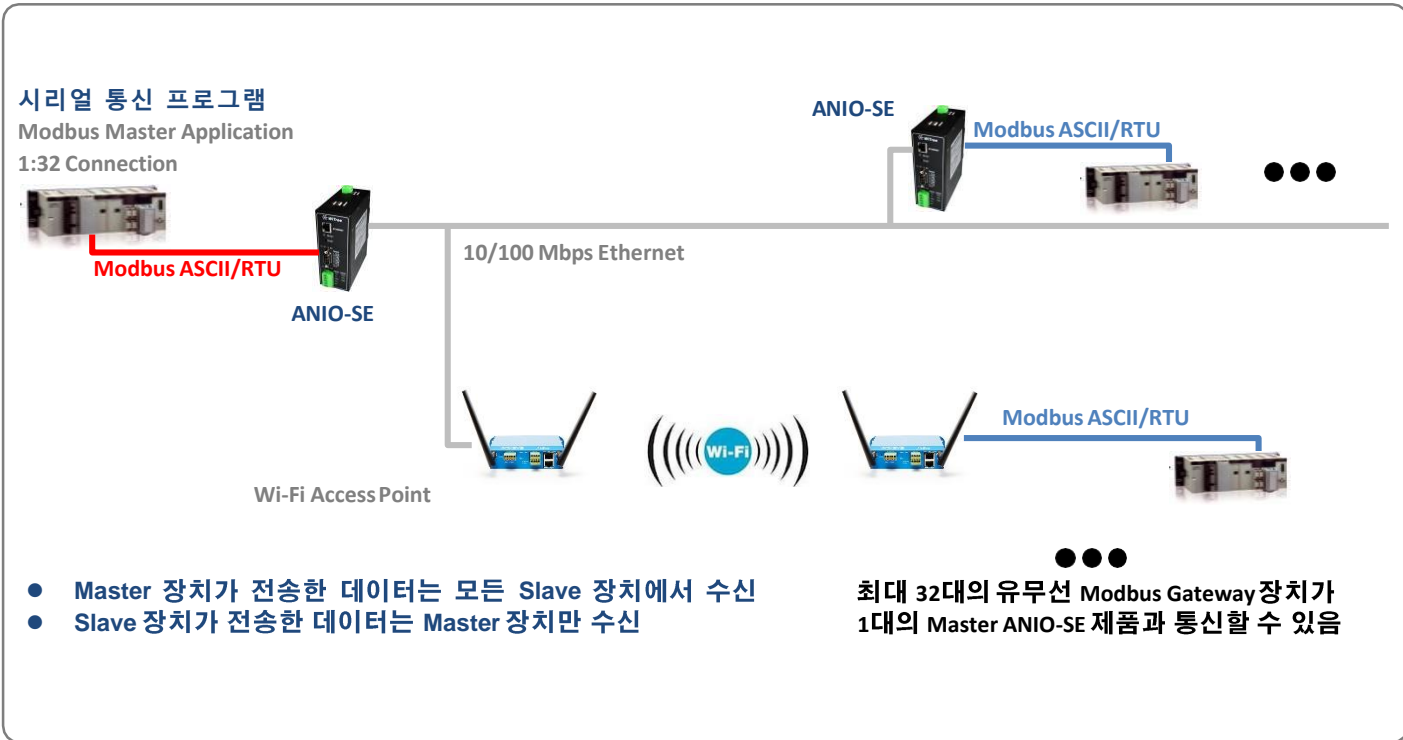
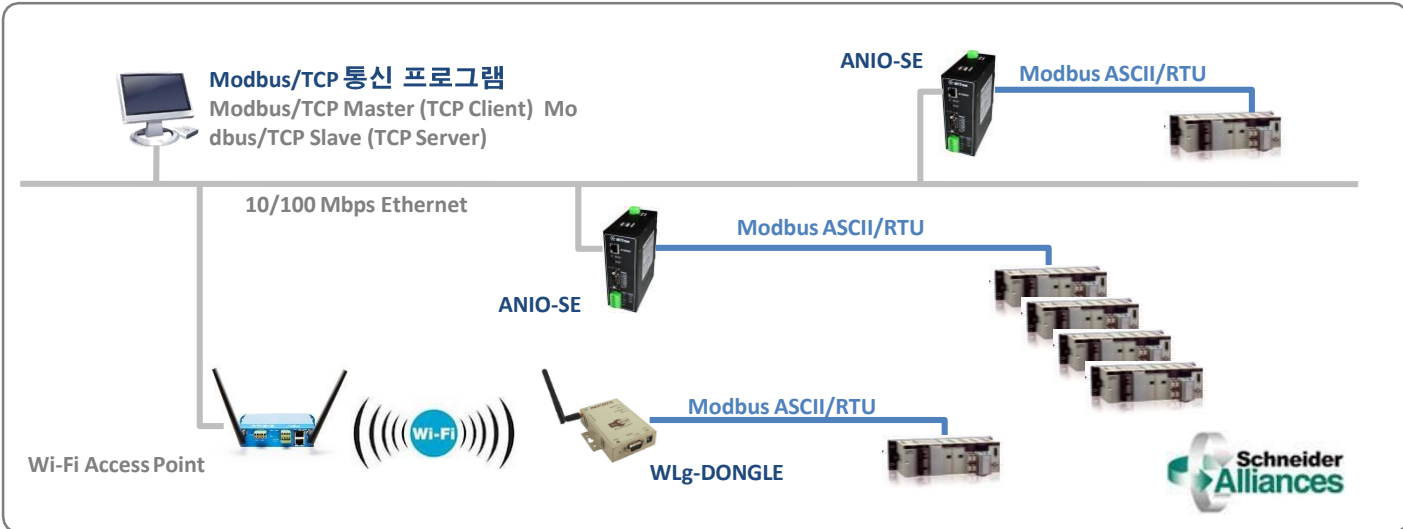
Solutions

- RS232/422/485 Serial to 424MHz RF Network
- RS232/422/485 Serial to Fiber-optic Network

PLC Solution

Modbus to Modbus/TCP

Modbus ASCII/RTU 데이터를 Modbus/TCP 데이터로 변환하여 10/100Mbps 유선랜 및 Wi-Fi 무선랜을 통해 전송합니다.



- Master 장치가 전송한 데이터는 모든 Slave 장치에서 수신
- Slave 장치가 전송한 데이터는 Master 장치만 수신

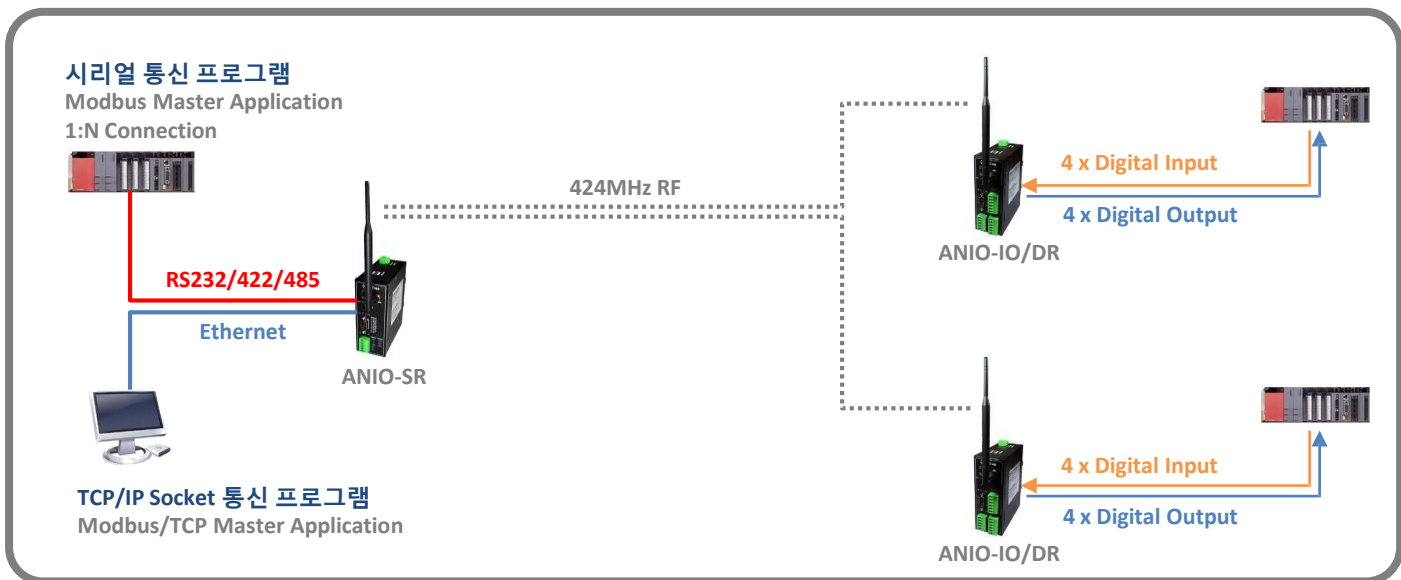
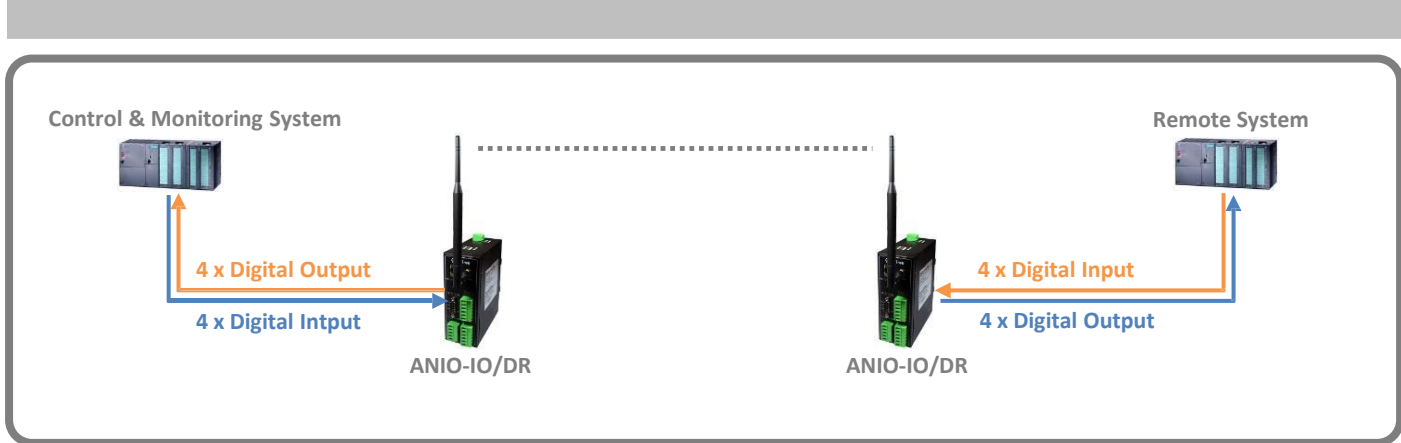
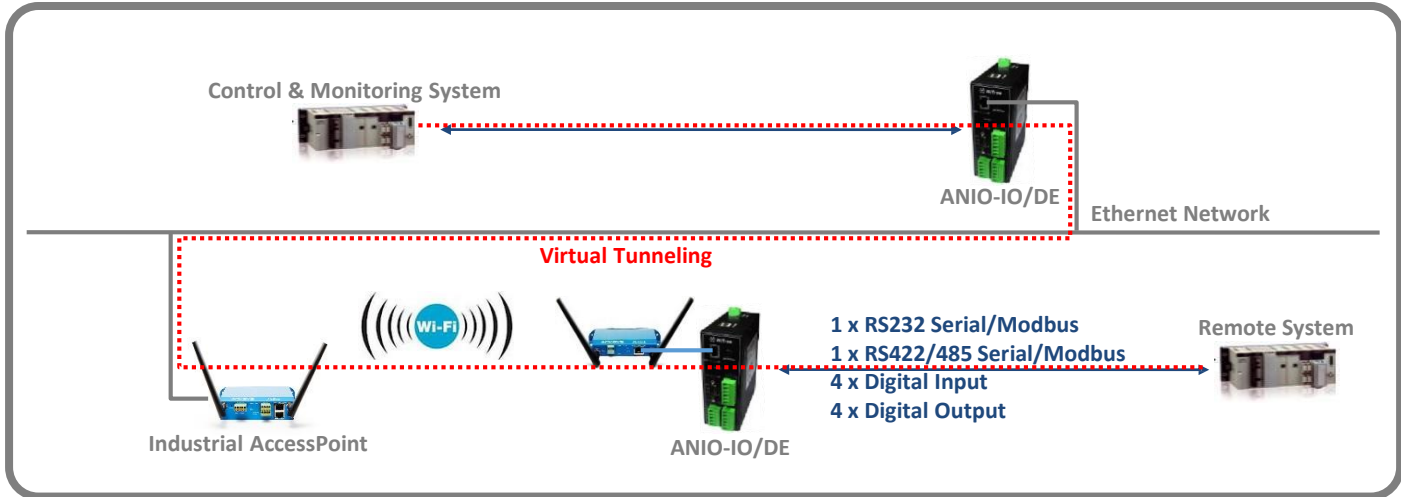
최대 32대의 유무선 Modbus Gateway 장치가 1대의 Master ANIO-SE 제품과 통신할 수 있음

Solutions

- Modbus ASCII/RTU to 10/100Mbps Ethernet Modbus/TCP Network
- Modbus ASCII/RTU to Wi-Fi Modbus/TCP Network

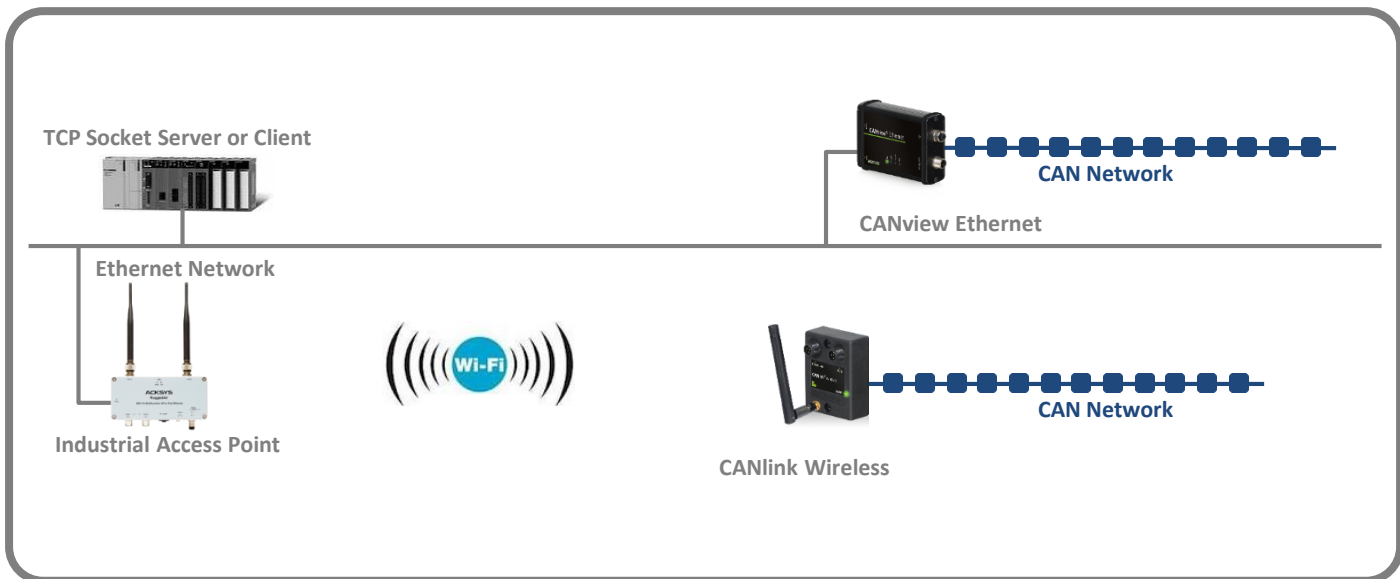
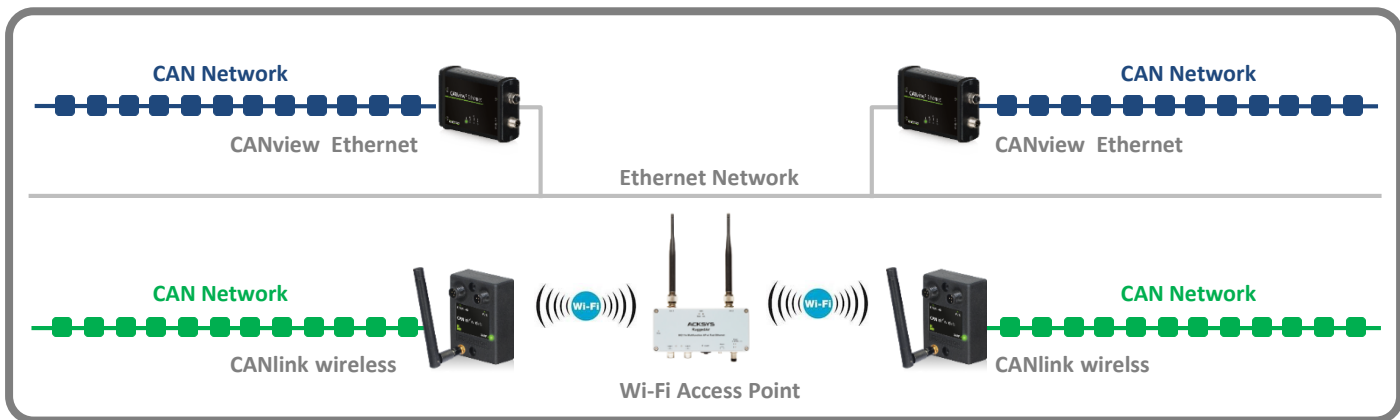
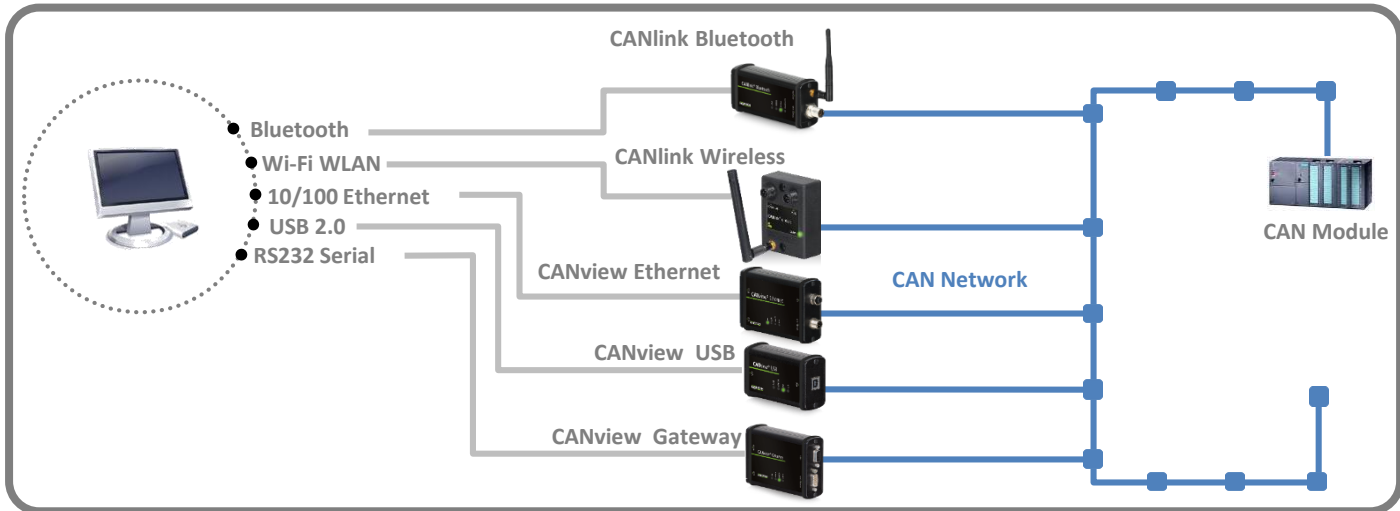
PLC Solution

Digital Input / Output




PLC Solution

CAN connection



PLC Solution

USB Products

Image	Model & Function	Communication Spec.	Hardware Spec.
	INU-100 USB to Ethernet Device Server	10/100/1000 Mbps Ethernet USB 3.0 Super Speed	2 x USB 3.0 12~48 VDC Input Power

Serial & Modbus Products

Image	Model & Function	Communication Spec.	Hardware Spec.
	WLg-xROAD/S Serial to Wi-Fi Device Server Modbus to Modbus/TCP Gateway	IEEE 802.11 a/b/g Wi-Fi RS232/422/485 Serial Modbus & Modbus/TCP	1 x Antenna 1 x RS232/422/485 Serial 1 x 7~60 VDC Input Power
	WLg-DONGLE Serial to Wi-Fi Device Server Modbus to Modbus/TCP Gateway	IEEE 802.11 a/b/g Wi-Fi RS232 Serial Modbus & Modbus/TCP	1 x Antenna 1 x RS232 Serial 1 x 5 VDC Input Power
	ANIO-SR Serial to RF Modem Ethernet to RF Modem Serial to Ethernet Device Server Modbus to Modbus/TCP Gateway	424 MHz Radio Frequency 10/100 Mbps Ethernet RS232/RS422/RS485 Serial Modbus & Modbus/TCP	1 x Antenna 1 x 10/100 Mbps Ethernet 1 x RS232 Serial 1 x RS422/485 Serial 9~30 VDC Input Power
	ANIO-SE Serial to Ethernet Device Server Modbus to Modbus/TCP Gateway	10/100 Mbps Ethernet RS232/RS422/RS485 Serial Modbus & Modbus/TCP	1 x 10/100 Mbps Ethernet 1 x RS232 Serial 1 x RS422/485 Serial 9~48 VDC Input Power
	RD300-OF Serial/Modbus to Fiber-optic Converter	Multi-mode Fiber-optic RS232/422/485 Serial	1 x ST interface 1 x RS232/422/485 9~36 VDC Input Power Alarm Relay (Fiber breakdown)
	RD300-OFR Serial/Modbus to Fiber-optic Converter	Multi-mode Fiber-optic RS232/422/485 Serial	2 x ST interface 1 x RS232/422/485 9~36 VDC Input Power Alarm Relay (Fiber breakdown)
	RD320-OF Serial/Modbus to Fiber-optic Converter	Single-mode Fiber-optic RS232/422/485 Serial	1 x SC interface 1 x RS232/422/485 9~36 VDC Input Power Alarm Relay (Fiber breakdown)
	RD320-OFR Serial/Modbus to Fiber-optic Converter	Single-mode Fiber-optic RS232/422/485 Serial	2 x SC interface 1 x RS232/422/485 9~36 VDC Input Power Alarm Relay (Fiber breakdown)



PLC Solution

Wi-Fi Access Point & Ethernet Bridge Product






Image	Model & Function	Communication Spec.	Hardware Spec.
	RuggedAir1000 Access Point Mesh Portal & Repeater Ethernet to Wi-Fi Bridge	IEEE802.11a/b/g/n/ac Wi-Fi IEEE802.11s Mesh 10/100/1000 Mbps Ethernet PoE IEEE802.3af (at type1)	3 x Antenna 2 x 1Gbps Ethernet 2 x 12~36VDC Input Power IP66 Enclosure Alarm Relay, C-Key
	RuggedAir100 Access Point Mesh Portal & Repeater Ethernet to Wi-Fi Bridge	IEEE802.11a/b/g/n Wi-Fi IEEE802.11s Mesh 10/100/100 Mbps Ethernet PoE IEEE802.3af (at type1)	2 x Antenna 2 x 10/100Mbps Ethernet 2 x 9~48VDC Input Power IP66 Enclosure Alarm Relay, C-Key
	AirXroad Access Point Mesh Portal & Repeater Ethernet to Wi-Fi Bridge	IEEE802.11a/b/g/n Wi-Fi IEEE802.11s Mesh 10/100/1000 Mbps Ethernet PoE IEEE 802.3af	2 x Antenna 1Gbps Ethernet 9~48VDC Input Power IP66 Enclosure
	AirBox Access Point Mesh Portal & Repeater Ethernet to Wi-Fi Bridge	IEEE802.11a/b/g/n + ac Wi-Fi Single / Dual Radio IEEE802.11s Mesh 10/100/1000 Mbps Ethernet 4G LTE	Single Radio, 2 x Antenna (AirBox/10) Dual Radio, 5 x Antenna (AirBox/12) 1 x Wi-Fi. 1 x 4G LTE (AirBox/14) 2 x 1Gbps Ethernet 2 x Digital Input / 2 x Digital Output
	AirLink Access Point Mesh Portal & Repeater Ethernet to Wi-Fi Bridge	IEEE802.11a/b/g/n Wi-Fi IEEE802.11s Mesh 10/100/1000 Mbps Ethernet PoE IEEE 802.3af	2 x Antenna 1Gbps Ethernet 9~48VDC Input Power
	Wlg-SWITCH Access pint Ethernet to Wi-Fi Bridge 8-ports L2 Ethernet Switch	IEEE802.11a/b/g Wi-Fi 10/100 Mbps Ethernet IEEE 802.3af PoE PSE	2 x Antenna 8 x 10/100Mbps Ethernet 2 x 9~72VDC Input Power PoE Power Supply Equipment Alarm Relay, C-Key
	Wlg-4LAN Access Point Ethernet to Wi-Fi Bridge 4-ports Ethernet Switch	IEEE802.11a/b/g Wi-Fi 10/100 Mbps Ethernet	2 x Antenna 4 x 10/100Mbps Ethernet 9~48VDC Input Power
	EmbedAir1000 Access Point Mesh Portal & Repeater Ethernet to Wi-Fi Bridge	IEEE802.11a/b/g/n + ac Wi-Fi Dual Radio IEEE802.11s Mesh 10/100/1000 Mbps Ethernet	5 x U.FL Antenna Connector 1Gbps Ethernet 5VDC Input Power
	EmbedAir100 Access Point Mesh Portal & Repeater Ethernet to Wi-Fi Bridge	IEEE802.11a/b/g/n Wi-Fi IEEE802.11s Mesh 10/100/1000 Mbps Ethernet	2 x U.FL Antenna Connector 10/100Mbps Ethernet 5VDC Input Power

PLC Solution

Digital Input / Output Products

Image	Model & Function	Communication Spec.	Hardware Spec.
	ANIO-IO/DE Digital I/O to Ethernet Device Server Serial to Ethernet Device Server Modbus to Modbus/TCP Gateway	10/100 Mbps Ethernet NPN or PNP Digital Input NPN Digital Output RS232/422/485 Serial Modbus & Modbus/TCP	1 x 10/100 Mbps Ethernet 4 x Digital Input 4 x Digital Output (open collector) 1 x RS232 Serial or Modbus 1 x RS422/485 Serial or Modbus 9~30 VDC Input Power
	ANIO-IO/DR Digital I/O to RF Modem Serial to RF Modem Ethernet to RF Modem Digital I/O to Ethernet Device Server Serial to Ethernet Device Server Modbus to Modbus/TCP Gateway	424MHz Radio Frequency 10/100 Mbps Ethernet NPN or PNP Digital Input NPN Digital Output RS232/422/485 Serial Modbus & Modbus/TCP	1 x Antenna 1 x 10/100 Mbps Ethernet 4 x Digital Input 4 x Digital Output (open collector) 1 x RS232 Serial or Modbus 1 x RS422/485 Serial or Modbus 9~30 VDC Input Power

CAN Device Product

Image	Model & Function	Communication Spec.	Hardware Spec.
	CANlink Wireless Series CAN to Bluetooth Device Server CAN to Wi-Fi Device Server	IEEE 802.11 a/b/g/n to CAN Classic Bluetooth version 2.1 EDR Serial Port Profile (SPP)	1 x Antenna 8~32 VDC Input Power IP 65 / IP 67 Enclosure
	CANlink Bluetooth CAN to Bluetooth Converter	Classic Bluetooth version 4.0 Local I/O	1 x Antenna IP 65 Enclosure
	CANview Ethernet CAN to Ethernet Device Server	10/100 Base TX Ethernet	1 x CAN 1 x 10/100 Mbps Ethernet 10~30 VDC Input Power M12 5-pin CAN-Interface M12 4-pin Ethernet-Interface IP 65 Enclosure
	CANview USB USB to CAN Converter	USB2.0 Virtual COM Port	1 x CAN 5V USB Power Input IP 40 Enclosure
	CANveiw Gateway CAN to CAN Device	CAN 1-Interface D-Sub CAN 2-Interface D-Sub	2 x CAN IP 20 Enclosure