

JSN1200

Low Power WiFi Dongle
Support Industrial Environment
Fast Boot and Compact size



저전력 802.11b/g/n Serial to Wi-Fi Dongle

JSN1200은 Half-duplex RS485 신호를 IEEE802.11 b/g/n 무선랜 프로토콜로 변환시키는 게이트웨이 동글로써 Serial interface를 가진 기존 장비를 무선랜 망에 연결하여 원격 측정, 관리 및 제어할 수 있게 해주는 제품입니다. 자체 케이스와 LED 표시 및 케이블을 포함하여 빠르고 손쉽게 응용할 수 있는 것이 특징입니다.

JSN1200 제품 소개

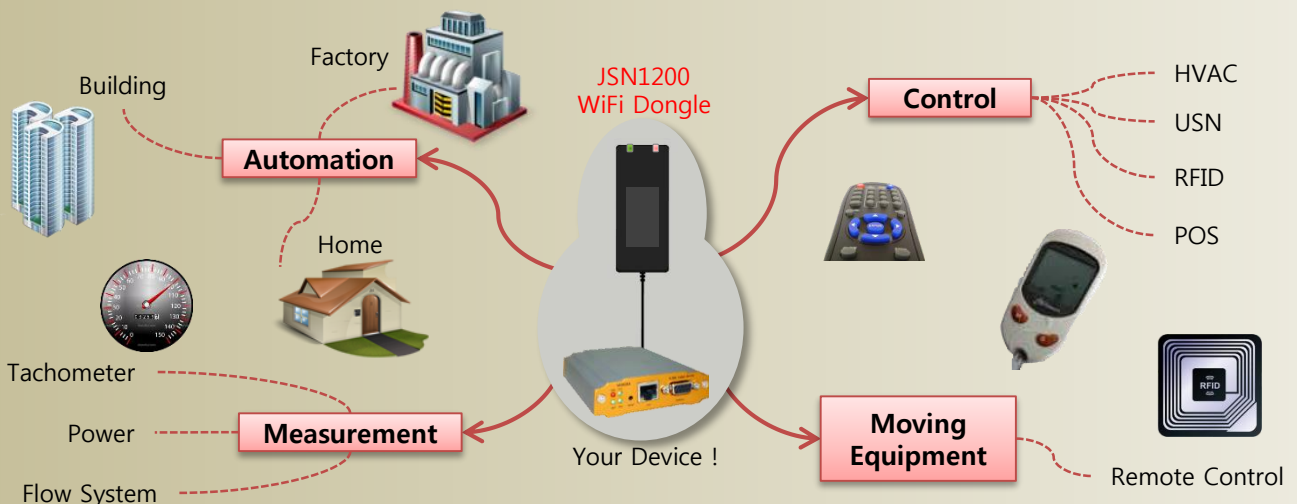
신뢰와 기술, 제이엠펜시스템

Key Features

- Embedded 802.11b/g/n Wireless Networking
- Serial to Wi-Fi Device
- Fast booting time (RTOS 기반)
- End to end TCP Socket Connection in a few seconds
- Timer and Event Triggered Auto-reporting Capability
- -20 to +70 °C Operating Temperature Range
- FCC and ETSI compliant for Unlicensed Operation
- Compact design 85mm X 30.8mm X 14.3mm
- Strong Security with 64/128 bit WEP, WPA, WPA2
- Simple AT Command for configuration
- Small Size, Light Weight, Low Cost, Easy to use
- RoHS Compliant

WiFi Solution
For IoT

Made in Korea



Aircess™ WiFi Dongle

Specification

제품 명칭 / 모델명 : JSN1200

Wireless

Wireless Standard	IEEE 802.11 b/g/n
Frequency Range	2.412~2.477 GHz
Output Power	17dBm@1Mbps, 15dBm@11n MCS0, 13dBm@11n MCS7
Receive Sensitivity	-97dBm@1Mbps, -93dBm@11n MCS0, -75dBm@11n MCS7
Data Rates	Max 72Mbps (MCS7 HT20)
Modulation Type	OFDM, DSSS

Hardware

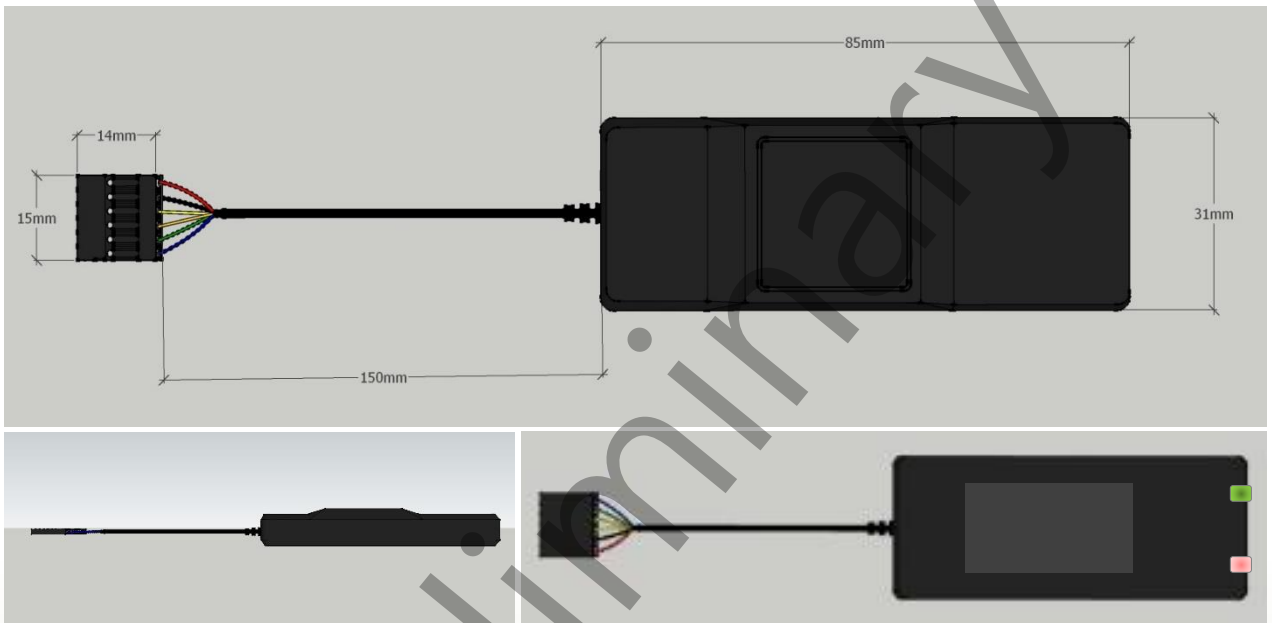
Antenna Connector	4.5dBi internal antenna
Interface	RS485 (기본 사양) RS232, RS422 (별도 주문)
Temperature	Operation: -20°C~70°C
Humidity	Operation: 10% ~ 90%, Non-Condensing
Serial	UART : 1200~921600bps (default 9600bps)
Supply Voltage	DC 4.5V~5.5V
Power Consumption	Typ. 100mA@operation Max. 500mA@continuous tx
Dimension	85mm X 31mm X 14mm
Weight	25g (인터페이스 케이블 포함)
Case	ABS, PC

Software

Serial Command Format	AT Command Set
Operation Mode	Infra-structure, Access Point
Protocol	ARP, UDP, TCP, ICMP, DHCP server, DHCP client, HTTP
WiFi Security	WEP 64/128bit, WPA/WPA2 private
API	TBD

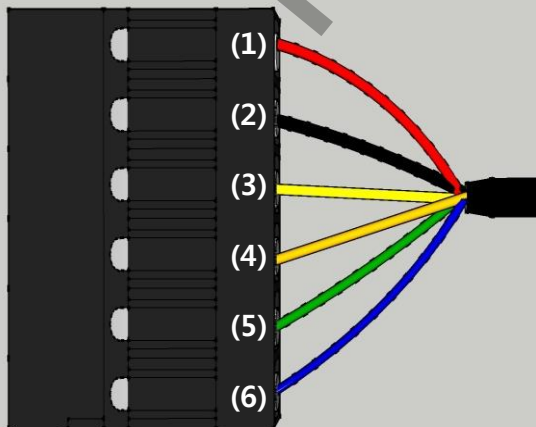
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Case and Cable Dimension



Red LED : Power
Green LED : WiFi

Pin description



No.	Color	Name	Direction	Description
(1)	Red	VDD	Power	5V POWER
(2)	Black	GND	Power	GND
(3)	Yellow	DATA+	In/Out	RS485 positive data.
(4)	Orange	DATA-	In/Out	RS485 negative data.
(5)	Green	TX_EN	Output	UART TX enable output 3.3V level
(6)	Blue	RESET_N	Input	External Reset Input. Active low. You may leave this pin unconnected. 3.3V level

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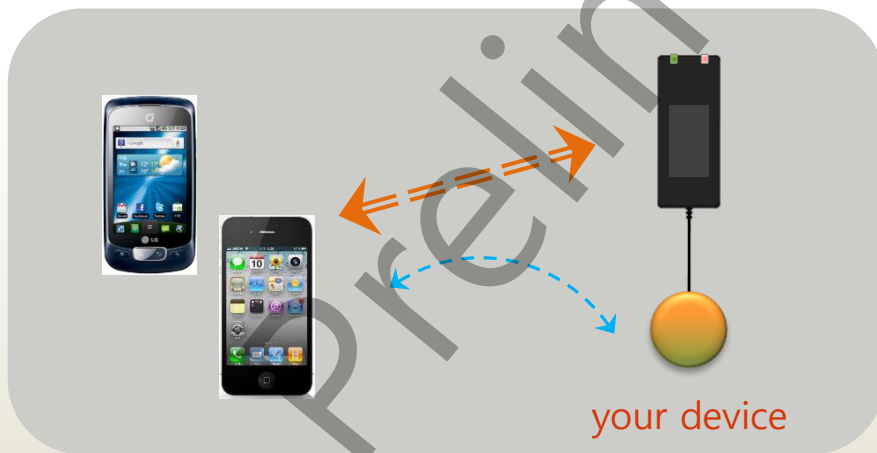
Operation Mode



Station mode

※ 각종 센서정보를 서버에 전송 (로컬망, 인터넷)

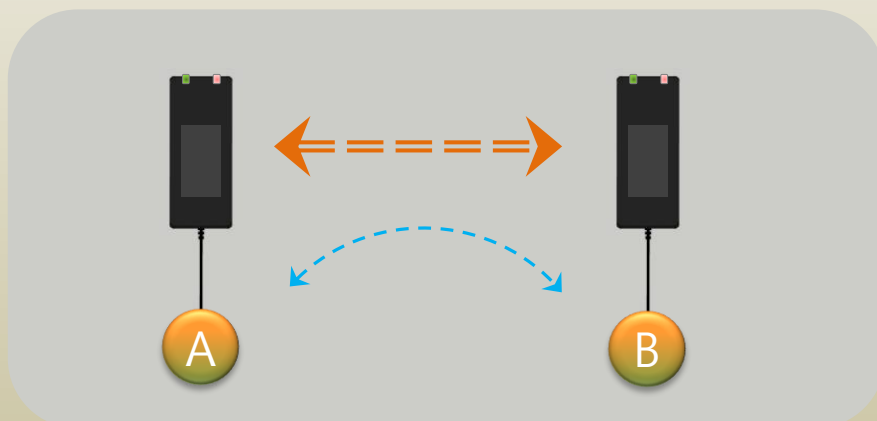
※ 인터넷을 통한 제품 제어



AP mode

※ 스마트폰을 리모콘으로 사용

※ 스마트폰으로 제품 설정



WiFi Direct mode

※ 시리얼 통신 무선 브리지

※ On/Off 제어 무선 브리지