

RF as a Service  
OEM / ODM

# NB-IoT GATEWAY

## Design and Manufacturing Service

Our RFaaS teams offer a great range of wireless electronic products on the basis of OEM / ODM. We welcome your ideas and will create the best solution for you.

WW-5C20

## NB-IoT Gateway RS485 & AUX In / Out

- NB-IoT Wireless data link provide stable data stream.
- Wide voltage operation for Industrial applications.
- Multi-Interface support RS-485 / Analog or Digital Input / Digital Output.
- AUX Power output for general purpose such as plug-in sensor, or other sub system.
- Resist the water, dust, temperature and shock and meet with the IP68 standard.
- Analog Input Support 0~10 V / 0~20 mA / 4~20 mA / ADC (0~10 V).
- Digital Output support PWM / Latch Mode.



WW-5D20 / WW-5D2B

## NB-IoT Gateway RS485 & 5 Ports AUX In / Out

- NB-IoT Wireless data link provide stable data stream.
- Wide voltage operation for Industrial applications.
- Multi-Interface support RS-485 / Analog or Digital Input / Digital Output.
- AUX Power output for general purpose such as plug-in sensor, or other sub system.
- Resist the water, dust, temperature and shock and meet with the IP68 standard.
- Analog Input Support 0~10 V / 0~20 mA / 4~20 mA / ADC (0~10 V).
- Digital Output support PWM / Latch Mode.
- Redundant battery inside. (WW-5D2B)



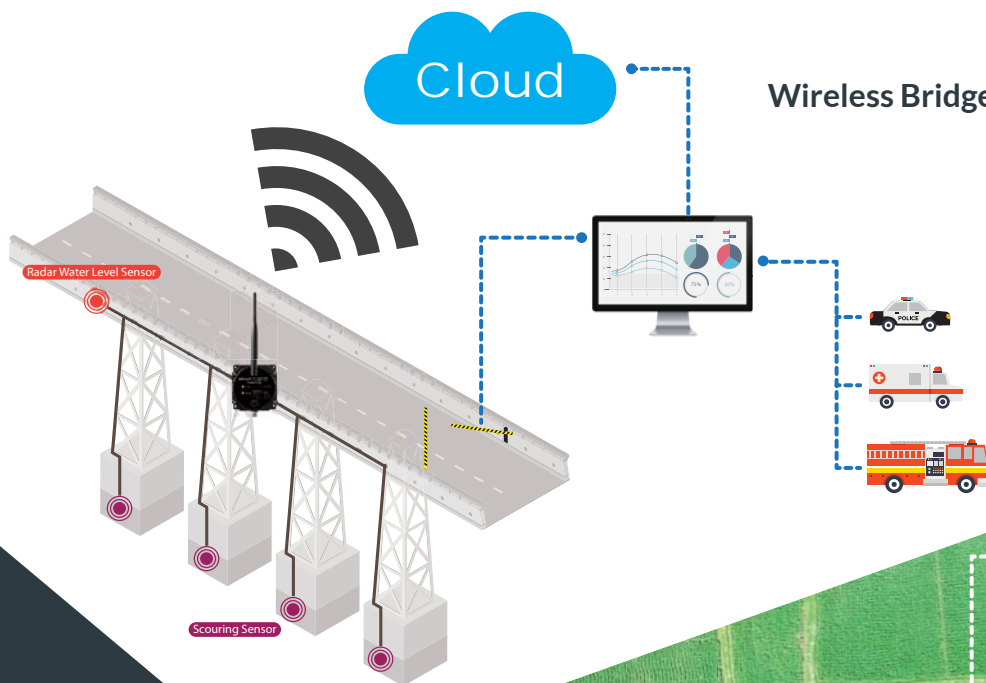
# Specification

WW-5C20	
Product Type	Outdoor
Cellular Protocol	NB-IoT (LTE Cat NB1 3GPP Release 13)
Internet Protocol	TCP / UDP / MQTT / Line Notify / AWS / Google Apps Script
Operating LTE Bands	Band 1 / Band 3 / Band 5 / Band 8 / Band 20 / Band 28
Sensitivity	Maximum -116dBm
Transmit RF Power	Maximum 23 dBm (Class 3)
Cellular Data Rate	NB1 (26.15 kbit / s DL, 62.5 kbit / s UL)
Interface	RS-485 x 1 / Analog or Digital Input x 1 / Digital Output x 1
RS-485 Protocol	Modbus RTU
Serial Interface Baud Rate	1200bps / 2400bps / 4800bps / 9600bps / 19200bps / 38400bps / 57600bps / 115200bps / 230400bps
Analog Input	Analog Input Support 0~10 V / 0~20 mA / 4~20 mA / ADC (0~10 V)
Digital Input	Digital Input Support High / Low Signal Judge
Digital Output	Digital Output Support PWM / Latch Mode
Operating Temperature	-40°C ~ 85°C
Main Unit Dimensions	10 x 10 x 4.8 cm (Not include antenna and external connect)
Weight	195 g
Waterproof	IP 68
Input Power Supply	12V ~ 36V DC / 1A
Output Power Supply	5V DC / 200mA (Max.)
Power Consumption	12V 15mA @receive / 12V 200mA @transmit / 12V ≤ 1mA @standby
Special Specification	Flame Retardant

WW-5D20		WW-5D2B	
Product Type	Outdoor		
Cellular Protocol	NB-IoT (LTE Cat NB1 3GPP Release 13)		
Internet Protocol	TCP / UDP / MQTT / Line Notify / AWS / Google Apps Script		
Operating LTE Bands	Band 1 / Band 3 / Band 5 / Band 8 / Band 20 / Band 28		
Sensitivity	Maximum -116dBm		
Transmit RF Power	Maximum 23 dBm (Class 3)		
Cellular Data Rate	NB1 (26.15 kbit/s DL, 62.5 kbit/s UL)		
Interface	RS-485 x 1 / Analog or Digital Input x 5 / Digital Output x 5		
RS-485 Protocol	Modbus RTU		
Serial Interface Baud Rate	1200bps / 2400bps / 4800bps / 9600bps / 19200bps / 38400bps / 57600bps / 115200bps / 230400bps		
Analog Input	Analog Input Support 0~10 V / 0~20 mA / 4~20 mA / ADC (0~10 V)		
Digital Input	Digital Input Support High / Low Signal Judge		
Digital Output	Digital Output Support PWM / Latch Mode		
Operating Temperature	-40°C ~ 85°C		
Main Unit Dimensions	10 x 10 x 4.8 cm (Not include antenna and external connect)		
Weight	245 g		295 g
Waterproof	IP 68		
Redundant Battery	X		18650 / 3.7V / 2500mAh
Input Power Supply	12V ~ 36V DC / 1A		
Output Power Supply	Main Port: 10V DC / 100mA (Max.), AUX 2~ AUX 5: 10V DC / 50mA (Max.)		
Power Consumption	12V 15mA @receive / 12V 200mA @transmit / 12V ≤ 1mA @standby		
	X		12V 230mA @charging
Special Specification	Flame Retardant		

\* Specifications are subject to change, in the interest of technical improvement, without notice or obligation.

## Wireless Bridge Sensor Network



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## IoT Wireless Smart Farming Solutions



## Weather Station Solutions

