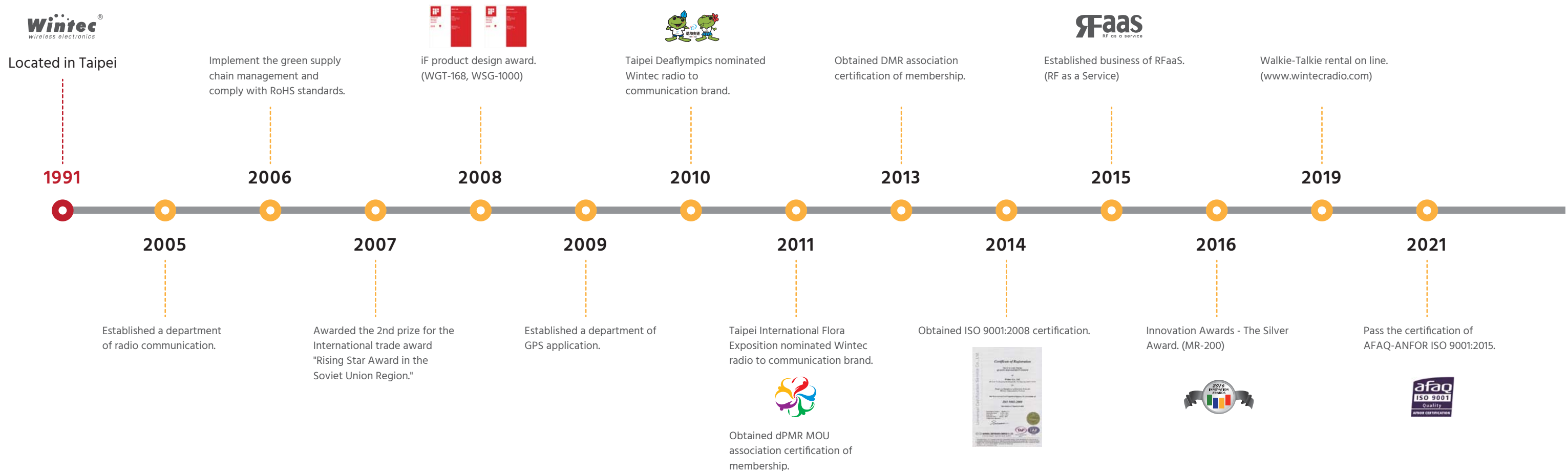




**RF Design &
Manufacturing
Service**

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WHO WE ARE

“ Established in 1991,
Wintec Co., Ltd. is the
wireless technology company. ”



WINTEC CO., LTD. was founded in 1991, with constant devotion towards the R&D of RF high-frequency domain from the beginning. It has developed several products with different functions. Other than OEM production collaboration, it has further established the Wintec marketing brand, which has gained support from many domestic and overseas clients throughout the past decade, and has further established countless marketing brands worldwide via the ODM approach, thereby taking up a significant position in the wireless communication market.

Wintec has established the belief of " Win by Technology " . The stable, special, and solid product features are our lasting pursuit goal in the process of development. Our company strategy emphasizes the " altruism " . Design the product and take the quality as our responsibility for the customer satisfaction.



OUR BUSINESS CONTENT

Wintec is an engineering-base company with extensive experience in product development. We have undergone a series of technical revolution with innovative researches in wireless application, and now become a well-established manufacturer with expertise in wireless technology.

Follow the trend of the Internet of Things (IoT) technologies, we established a new RFaaS(RF as a service) business unit and focus on the various wireless applications as NB-IoT / LoRa / GPS / Bluetooth / DALI Lighting / RF Radio...and offer OEM / ODM service.



RF Design and Manufacturing Service



IoT Solutions



GPS Application



Motorcycle
Communications



Two-Way Radio



OEM / ODM

FACTORY

Wintec's manufacturing factory is located in Zhonghe Dist., New Taipei City. We directly provide the customized service and receive feedback for the service quality, not through agencies.

Through a comprehensive series of KM quality system records to analyze all failure cases and propose improvement solutions, so that improve the defective-loss at the first moment. We implement the Quality-Control Standard System and make regular cycle tracking before delivering. Creating the most positive client recommendations and satisfactions with the perfect production.

In pursuance of excellent quality to obtain customers' satisfaction!

Do it right the first time: This means the attitude of pursuing excellence until perfection has been attained.
Do it right every time: This means the spirit of stable quality and sustainable management.

To accomplish the aforementioned policies, we will:

1. Focus on pre-planning and preventive measures instead of corrections.
2. Stimulate culture of quality and continue to reinforce employees' core specialty and managerial competency training.
3. Continue to improve the company's quality management system, hoping to attain the ideal operating approach in the field.
4. Encourage to surmount clients' needs and accomplish outstanding quality through continuous improvement.
5. Focus on pre-planning and risk management.
6. Encourage to surmount clients' needs to attain outstanding quality guarantee.
7. Continue to enhance all employees' specialty training.
8. Enhance the enterprise's excellent culture and comprehensive personality development.

- Customized Service
- Factory Outlet
- Made In Taiwan

MANUFACTURING



R & D

Win by Technology

With strong R&D background and innovation in the electronic field, we have now become a well-established manufacturer with expertise in wireless technology. We have undergone a series of technical revolution with innovative researches on wireless application.

With a strong and inventive R&D team taking up 25% of the whole factory group, we spend over 6% of annual gross profits on R&D works. We focus on the production of many wireless electronic products on the basis of OEM / ODM.

Our products have been exported around the world under our self-brand -- Wintec. Wintec has established the belief of "win by technology". Then, stable, special, and solid features are our long lasting pursuit in the process of development.



Hardware

- . Circuit Design
- . PCB Layout



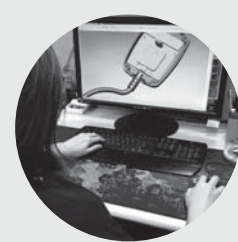
Software

- . PC Software
- . Firmware



System Commissioning

- . Software and Hardware Integration
- . Human-Machine Interface Integration
- . Product Overall Image Design



Mechanism

- . Mechanism Design
- . Product Image Design



Quality Assurance

- . Incoming Quality Control
- . Process Quality Control
- . Out-Going Quality Control



“Wintec -
Wireless Technology Solution,
Welcome OEM / ODM.”



OEM ODM SERVICE

To meet the growth and prosper on the Internet of things (IoT) and the mobile peripheral wireless application, we have established RF wireless design service OEM / ODM business unit: RFaaS (RF as a service).

We focus on the wireless field including wireless communication, cold chain monitoring and tracking, GPS applications, 4G LTE Cat 1, LPWAN (NB-IoT / LoRaWAN / Wi-SUN) and wireless automatic meter reading / automated metering infrastructure (AMR / AMI), etc.. wireless technology. RFaaS can provide a variety of wireless customized designs that based on client requests, integrate the wireless devices and various sensors.

To enable focus on the expertise field, inspire innovative value and develop more intelligent products, with RFaaS design services, clients can easily integrate wireless application and sensors and seamlessly connect their product with IoT.

Bring your product together with the Internet of things, choose RFaaS to achieve.



RF TRANSCEIVER MODULE

We also have a simple EVK product that could help you quickly evaluate whether the module meets your needs.



LoRaWAN RF Transceiver Module

WD-FLI7 / WD-FLI6



WD-FLI6 / WD-FLI7 are modules used for the industrial standard LoRaWAN, and supports the 868 / 915 MHz frequency bands, respectively; they have highly integrated antennas and MCU suitable for IoT LPWAN network sensor applications. The WD-FLI x module design includes DIO / ADC / UART / SPI / I2C pins for basic applications.

The wireless connection protocol of the WD-FLI x module is LoRaWAN can connect to the network and transfer data in accordance with the specified LoRaWAN Region and the corresponding LoRaWAN Gateway. WD-FLI x EVK is added with sensors and necessary components based on the WD-FLI6 / WD-FLI7 module, and provide streamlined test firmware to quickly assess the module efficiency.



LoRaWAN RF Transceiver Module

WD-FLHM

WD-FLHM is module used for the industrial standard LoRaWAN, and supports the 868 / 915 MHz frequency bands; they have highly integrated antennas and MCU suitable for IoT LPWAN network sensor applications. The WD-FLHM module design includes DIO / ADC / UART / SPI / I2C pins for basic applications.

The wireless connection protocol of the WD-FLHM module is LoRaWAN can connect to the network and transfer data in accordance with the specified LoRaWAN Region and the corresponding LoRaWAN Gateway. WD-FLHM EVK is added with sensors and necessary components based on the WD-FLHM module, and provide streamlined test firmware to quickly assess the module efficiency.



IoT Technology is Connecting Our World



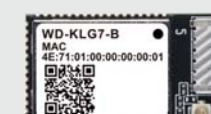
Mioty RF Transceiver Module

WD-QLHM

WD-QLHM is module used for the industrial standard Mioty, and supports the 868 / 915 MHz frequency bands; they have highly integrated antennas and MCU suitable for IoT LPWAN network sensor applications. The WD-QLHM module design includes DIO / ADC / UART / SPI / I2C pins for basic applications.



The wireless connection protocol of the WD-QLHM module is Mioty can connect to the network and transfer data in accordance with the specified Mioty Region and the corresponding Mioty Gateway. WD-QLHM EVK is added with sensors and necessary components based on the WD-QLHM module, and provide streamlined test firmware to quickly assess the module efficiency.



Wi-SUN RF Transceiver Module

WD-KLG7-B / WD-KLFM-A

WD-KLXX is an industrial 868 / 915 MHz sub-GHz radio low-power, two-way radio module. It supports IEEE 802.15.4g / Wi-SUN, highly integrated wireless and MCU, suitable for sensing applications in IoT networks. The WD-KLXX module designs such as DI / DO / ADC / UART / SPI / I2C pin provides basic applications and it is a module designed based on the Vertexcom VC7300 series chips. Firmware can be customized for customers to integrate more sensors and IoT network products to apply on the module.

The wireless connection protocol of the module is Wi-Sun; its features include its Mesh connection and it has the two roles of Border Router and End Node. The End Node itself can be used as a repeater for other End Nodes to connect to the Border Router and forward data and use this to achieve the Mesh networking effect.

Our EVK supports Border Router and End Node simultaneously and uses different firmware to determine its role.



INDUSTRIAL
WIRELESS
PRODUCT

LORA

Farm Management Solutions

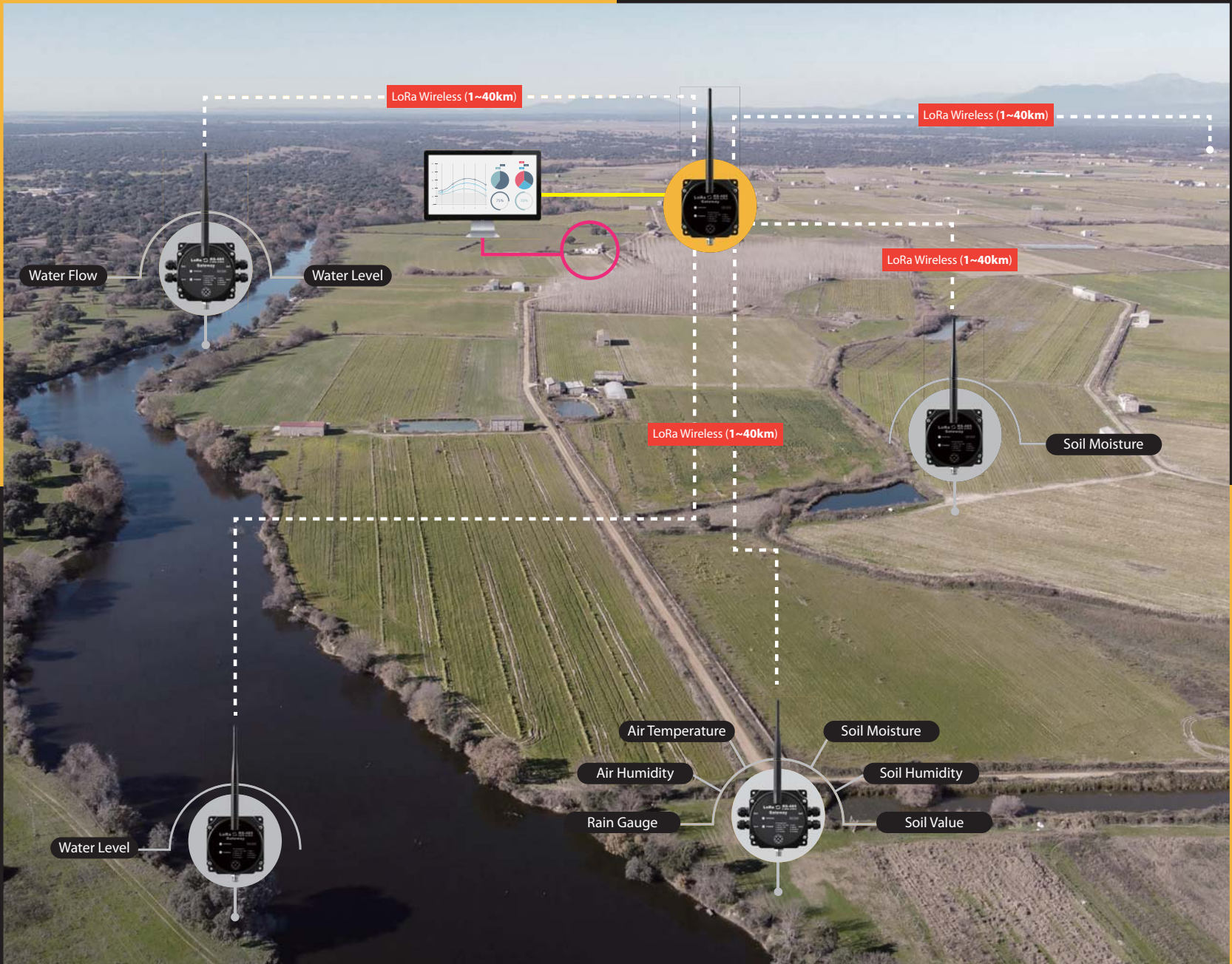
How to reduce the farmers cost of producing and improving the quality of their produce through implanting sensor with wireless technology in their farms.

Farmers can get the real time information from the farms to control or manage relative equipments. Besides, they can follow your plannig working automatically.

LoRa / RS485 & 5 Ports AUX In / Out Gateway

WW-3D28

- LoRa wireless data link provide stable data stream.
- High output RF Power and high sensitivity provide more then 40KM transmission distance.
- Multi-Interface support RS-485 / Analog or Digital Input / Digital Output.
- AES 128 / 256 encryption function.
- Waterproof / Flame Retardant.



LoRa / RS485 & AUX In / Out Gateway

WW-3C28

- LoRa wireless data link provide stable data stream.
- High output RF Power and high sensitivity provide more then 40KM transmission distance.
- Multi-Interface support RS-485 / Analog or Digital Input / Digital Output.
- AES 128 / 256 Encryption Function.
- Waterproof / Flame Retardant.

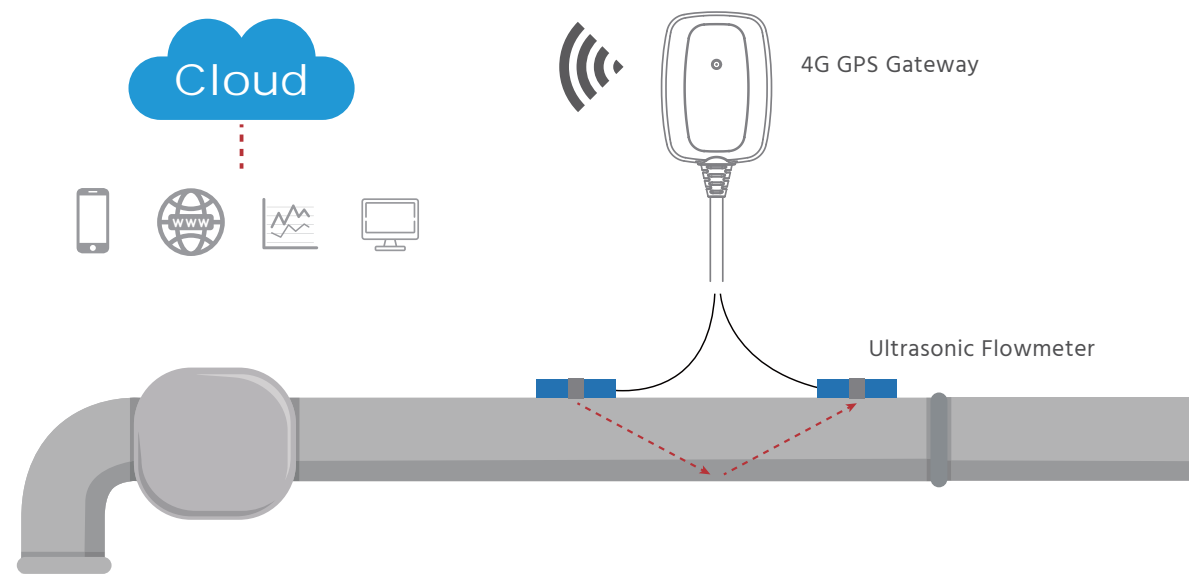
LoRa / RS485 & RS232 Gateway

WB-3628

- LoRa wireless data link provide stable data stream.
- High output RF Power and high sensitivity provide more then 40KM transmission distance.
- Multi-Interface support RS-485 / RS-232.
- Flame Retardant.



LTE CAT1 4G



Water Pipeline Monitoring Application

In water pipeline monitoring applications, 4G GPS gateways are used for real-time data monitoring. It is small in size, waterproof and easy to integrate in various situations.



LTE Cat1 / 4G GPS Gateway

WG-E690

- Trigger detect.
- Multi-Interface support RS-485 / Digital output / Digital or Analog input.
- Operating LTE bands: Band 1 / Band 3 / Band 5 / Band 7 / Band 8 / Band 28.
- Support remote monitor location / Path Tracker / Trigger status / DI and DO status.
- LED indicator for GPS / LTE-Cat1 status.
- GNSS receiver.
- GNSS sensitivity: -159 dBm sensitivity.

LTE Cat1 / 4G GPS Tracker

WG-E690 (Regular)

- Ignition detect.
- Trigger detect.
- Multi-Interface support RS-485 / Digital output / Digital or Analog input / Ignition.
- Operating LTE bands: Band 1 / Band 3 / Band 5 / Band 7 / Band 8 / Band 28.
- Support remote monitor location / Path Tracker / Ignition status / Trigger status / DI and DO status.
- LED indicator for GPS / NB-IoT status.
- GNSS receiver.
- GNSS sensitivity: -159 dBm sensitivity.

LTE Cat1 / 4G GPS Tracker

WG-E69D (Electric Motobike)

- Ignition detect.
- Battery manager system information collect.
- Multi-Interface support RS-485 / Digital output / SMBUS / Ignition.
- Operating LTE bands: Band 1 / Band 3 / Band 5 / Band 7 / Band 8 / Band 28.
- Support remote monitor location / Path Tracker / Ignition status / SMBUS status.
- LED indicator for GPS / NB-IoT status.
- GNSS receiver.
- GNSS sensitivity: -159 dBm sensitivity.

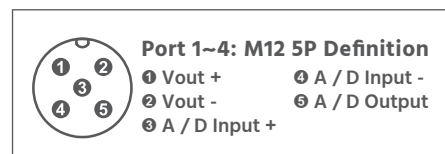


NB-IOT

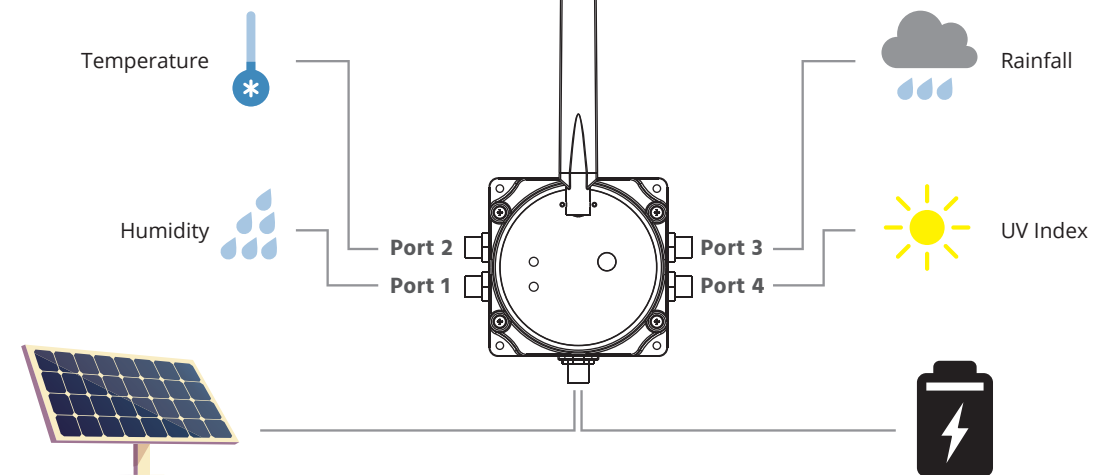
NB-IoT RS485 & AUX In / Out Gateway

WW-5C20

- NB-IoT wireless data link provide stable data stream.
- Multi-Interface support RS-485 / Analog or Digital Input / Digital Output.
- Operating bands: Band 1 / Band 3 / Band 5 / Band 8 / Band 20 / Band 28.
- Internet Protocol TCP / UDP / MQTT / Line Notify / AWS / Google Apps Script.
- Waterproof / Flame retardant.



Small Weather Station Solutions
Analog Sensor with External Battery Pack



CUSTOMIZATION

NB-IoT Wireless Sensor Node

WW-5H20 / WW-5H2B

- NB-IoT wireless data link provide stable data stream.
- Operating bands: Band 1 / Band 3 / Band 5 / Band 8 / Band 20 / Band 28.
- Internet Protocol TCP / UDP / MQTT / MQTTS / Line Notify.
- 4 Sensors-Interface Support Analog or Digital Input / Analog or Digital Output / RTD / Frequency Count / Pulse Count.
- Multi-type Interface for sensor.
- Data logger with SD card.
- AES encryption function.
- GNSS / GPS receiver.
- More Energy Efficient / Longer Standby Time.
- Solar charger management.
- Redundant battery inside. (WW-5H2B)
- Wide voltage operation for industrial applications.
- AUX power output for general purpose such as plug-in sensor or other sub system.
- Resist the water, dust, temperature and shock and meets.
- IP68 rating / Flame retardant.



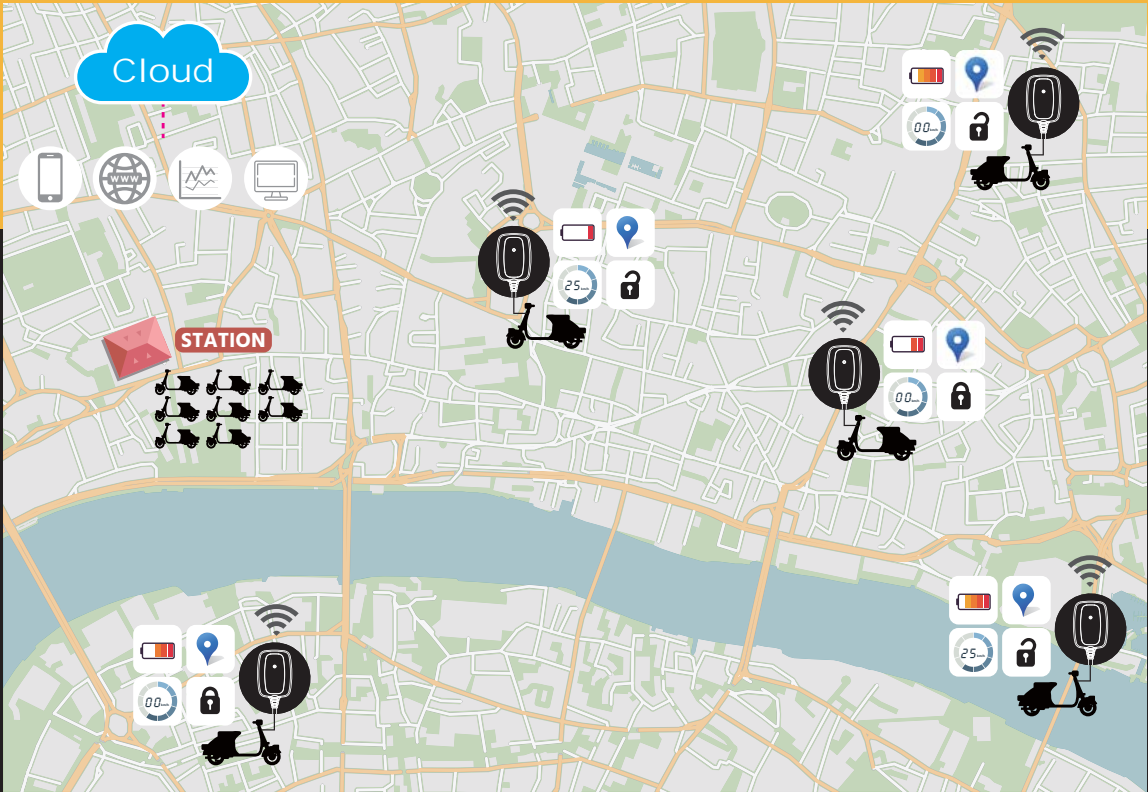
NB-IoT RS485 & 5 Ports AUX In / Out Gateway

WW-5D20 / WW-5D2B

- NB-IoT wireless data link provide stable data stream.
- Multi-Interface support RS-485 / Analog or Digital Input / Digital Output.
- Operating bands: Band 1 / Band 3 / Band 5 / Band 8 / Band 20 / Band 28.
- Internet Protocol TCP / UDP / MQTT / Line Notify / AWS / Google Apps Script.
- Redundant battery inside. (WW-5D2B)
- Waterproof / Flame retardant.



GNSS RECEIVER GPS TRACKER



Smart Logistics Solutions

The logistics industry is a very important and indispensable part of economic activities. With the rise of "Stay at Home Economic", logistics operators need more and smaller smart logistics solutions. WINTEC GPS TRACKER series products can be used in locomotive express delivery, minivans and delivery services. The goods are transported from the warehouse to the relay station, and finally delivered to the store, and the whole process is controlled. It can also use external sensors to track whether the cargo has lost temperature, dropped, hit or other accidents. A GPS TRACKER can be installed without a cloud or server, you can directly send data to your communication software, or you can provide information to existing systems to achieve efficient, green and safe operation of logistics.



LTE Cat1 / 4G GPS Tracker

WG Series

WG series is a new generation GPS tracker, suitable for cold chain logistics / vehicle rental / transportation of valuables. This series can support LTE Cat-1. The GPS tracker provides continuous position and path tracking / Speed / Battery Status / Ignition Status / Trigger Status, which can be sent back to the cloud server or private server through the carrier network.



GNSS Receiver

WGM-303

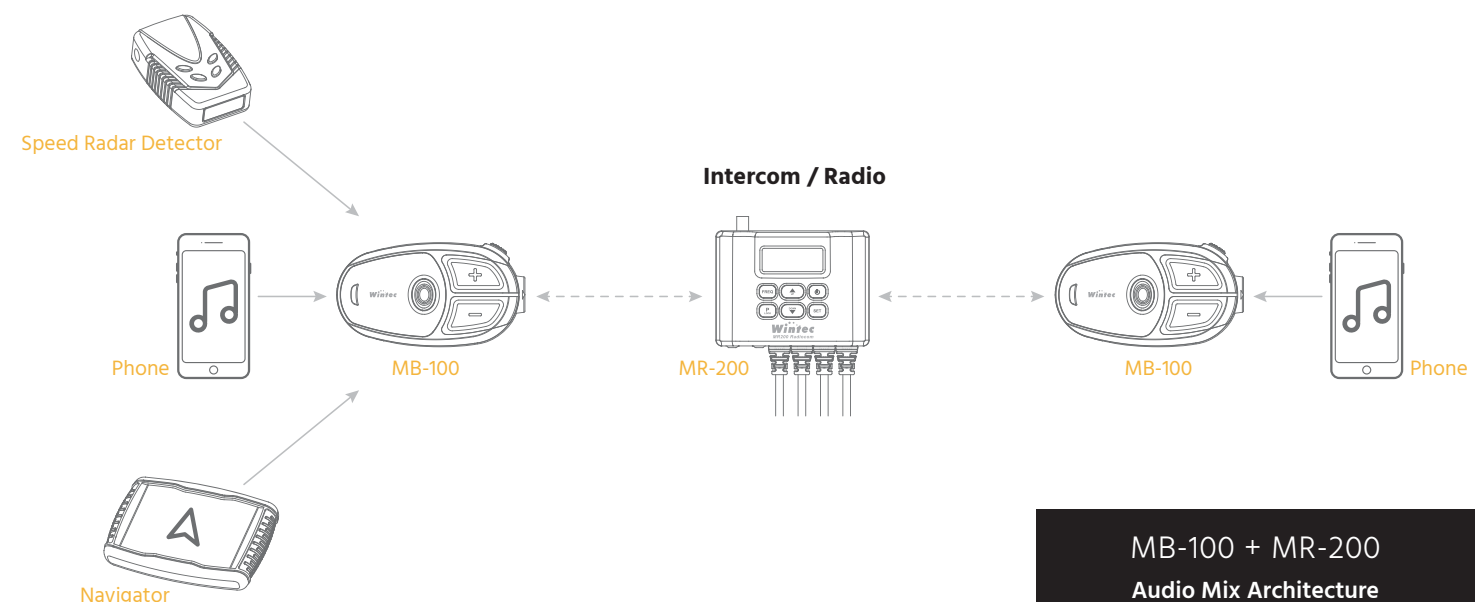
WGM-30X is a highly sensitive which is a built-in antenna. You can use the GNSS Receiver in automotive navigation, security tracking purpose, map making and fleet management. Providing reliable positioning in difficult environments, meet even the most stringent requirements in versatile industrial and consumer applications, such as UAVs, vehicles (car, truck, bus etc.) and asset tracking. The optional connectors of USB and PS / 2 enable the connection with a laptop, car PC and other electronic devices. It's compatible with Microsoft Windows 10, 8.1, 8, as well as 7, Vista.

MOTORCYCLE 2-WAY RADIO X BLUETOOTH HEADSET

“Wintec provides
the comprehensive
communication system
for motorcycle.”

The perfect enjoyment of riding experience, let travelling companions no distance and no limit.

MR-200 is the 2 way communication system for motorcycle used. Support UHF frequency range as like PMR446 / FRS / GMRS..... The dual band is covering 136~175 and 400~520 MHz. It is not only a motorcycle FM transceiver, but also the Audio Integrator. The advantages are AUX-in supported such as radar speed detector, GPS and MP3 and featured in rider and passenger intercom. The Bluetooth system can match with our Bluetooth headsets MB-100 that is supported audio voices mix function. When the rider and passenger are in intercom function, the music sharing is not interrupted, which includes navigator, radar detector and other Bluetooth devices. Use the MR-200 to break the short distance of communicating, plus the MB-100 to make the sound sources perfectly and stably.



Motorcycle 2-Way Radio

MR-200 (Wired Version) / MR-200BT (Bluetooth Version)

MR-200 is the 2 way communication system for motorcycle used. Support UHF frequency range as like PMR446 / FRS / GMRS..... The dual band is covering 136~175 and 400~520 MHz. It is not only a motorcycle FM transceiver, but also the Audio Integrator. The advantages are AUX-in supported such as radar speed detector, GPS and MP3 and featured in rider and passenger intercom.



Motorcycle Bluetooth Headset

MB-100

- Multi audio mixer: Intercom or MR-200 Radiocom with phone music / navigator / speed radar detector voices all mix.
- Intercom function.
- High premium quality speakers.
- Microphone advanced noise cancellation.
- CVC noise cancellation. (Clear Voice Capture)
- Ultra long life battery: Music time 26 hours continuously / Intercom time 22 hours continuously.
- Convenience & Intuitive operation.
- Extreme painting appearance.
- Low wind resistance shape design.
- Waterproof IP67.
- Voice notification.
- AUX-In: Support two way radio.



PROFESSIONAL TWO-WAY RADIO

Professional Portable 2-Way Radio



LP-4511

- 128CH rugged professional radio.
- High-capacity(2600mAh) battery design.
- New generation IF system.
- Voice Scrambler.



LP-4611

- High-capacity(2600mAh) battery design.
- Compact and rugged case IP-54, 55 protection.
- 16 programmable channels.
- New generation IF system.
- Voice Scrambler.



LP-4011

- 128CH lightweight Compact and rugged professional radio.
- High quality sound (40mm speaker, BTL amplifier).
- Digital adjustment.
- Voice Scrambler.



LP-4604+

- 16CH Lightweight professional radio.
- Digital adjustment.
- DCS / CTCSS.



Wintec 2-Way Radios, designed in compact and lightweight with excellent shock ,dust and moisture found in heavy commercial and industrial environments, adopt in the most advance technology.

Our R&D 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.

Portable Compact Business Radio



LP-4502+

- lightweight Compact and rugged design.
- RF Power up to 4W.
- Digital adjustment.
- New generation IF system.
- Voice Scrambler.

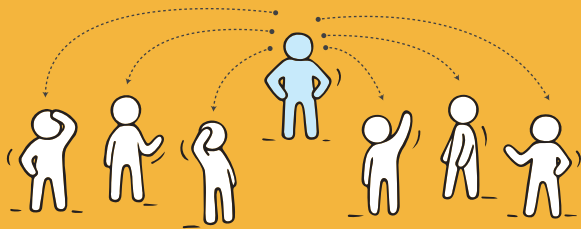


LP-MINI 46

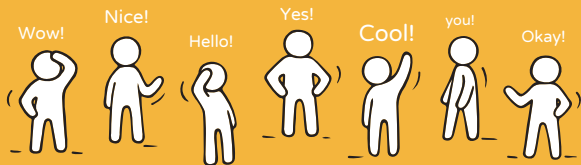
- Digitally design to ensure the stability.
- High output power up to 4W.
- Rugged aluminum case.
- USB programmable for 128 programming channels.
- CTCSS / DCS supported.
- Firmware upgradeable.

Wireless Tour Guide System

Tour Guide Mode
Only the master can be the speaker.



Walkie-Talkie Mode
Talk to each other.



TS-MINI

- Ultra compact with lightweight design.
- Extremely power-saving design for long time operation.
- Integrated walkie-talkie feature.
- Multi-charger.
- Automatic locking with receive navigation.

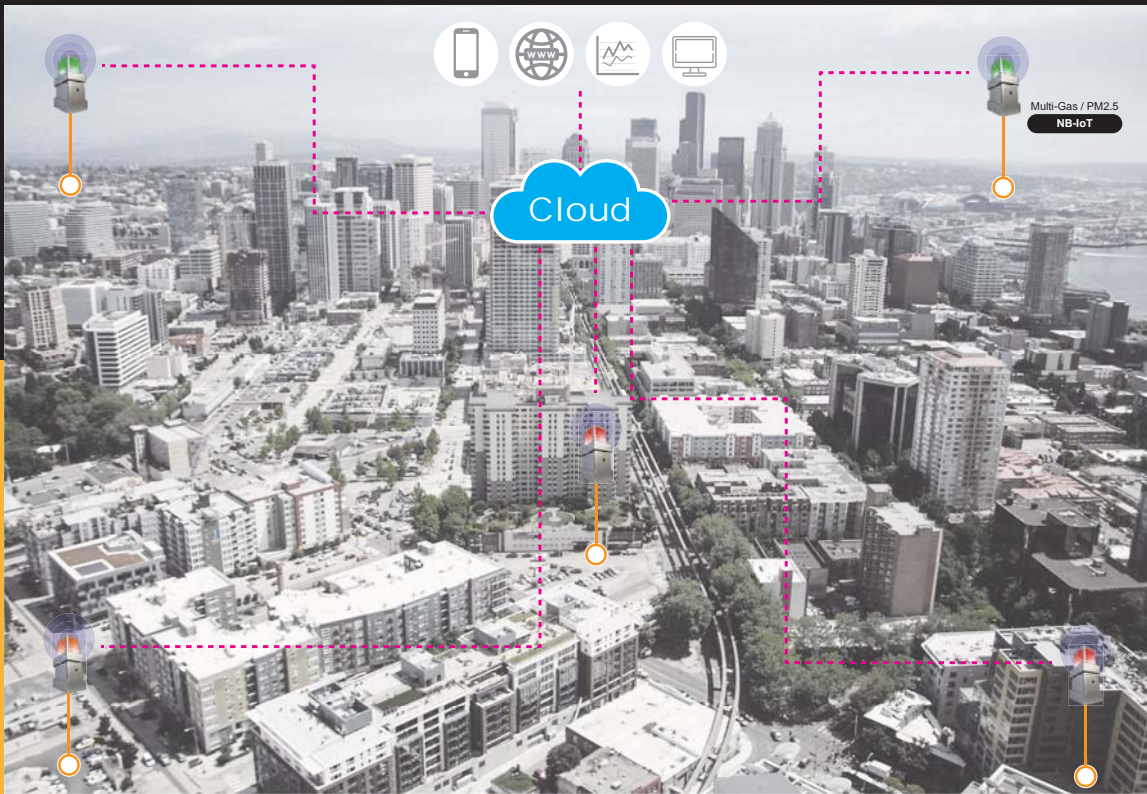
RFAAS
RF AS A SERVICE

OEM
ODM

RFaaS may depend on the client product demand, the conformity wireless and various types sensing function, and provides the diversification the wireless customizer design service.

Our OEM and ODM services are backed with the excellent engineering-base teams, newest technologies and honest service support grant values of your money.

We have extensive experience in product developments and designs and allow us to provide you the required products that are competitively priced to exceed all your expectations of performance.



INDUSTRIAL WIRELESS SENSOR

Realize the early warning and management of PM2.5 / Multi-gas, and display the air quality status at the local end. If an abnormality occurs, the light will be red and the warning will be triggered immediately.

The messages of observation are transmitted back to the cloud server through the built-in NB-IoT, which will meet the requirements of short-term observations and long-term monitoring and analysis. The system is applied a variety places for country, region and city.

We will be the best partner for System Integrator who is engaged in intelligent city, architecture and building.



WGM-U6



WGM-U8



WGM-UDR8



WGM-P6



WGM-P8



WGM-T8

GPS MODULE

Everything you need in GPS Solutions !

Our experienced R&D team members and engineers offer a great range of GPS tracker OEM and GPS tracker ODM Locator services. We welcome your GPS tracking OEM Locator and GPS tracking OEM projects if our existing range of tracking products does not seem to suffice your requirement.

We provide GPS module ODM / OEM service, any GPS receiver you want, we can provide customized services.

WGM series is a highly sensitive GPS receiver with an internal antenna. It incorporates the u-Blox module, high sensitivity GPS chipset, which is useful in navigation, security tracking purpose, map making and other agricultural needs.

- WGM-G Series: General Precision GNSS Receiver
- WGM-T Series: Concurrent GNSS Timing Receiver
- WGM-P Series: Precise Point Positioning GNSS Receiver

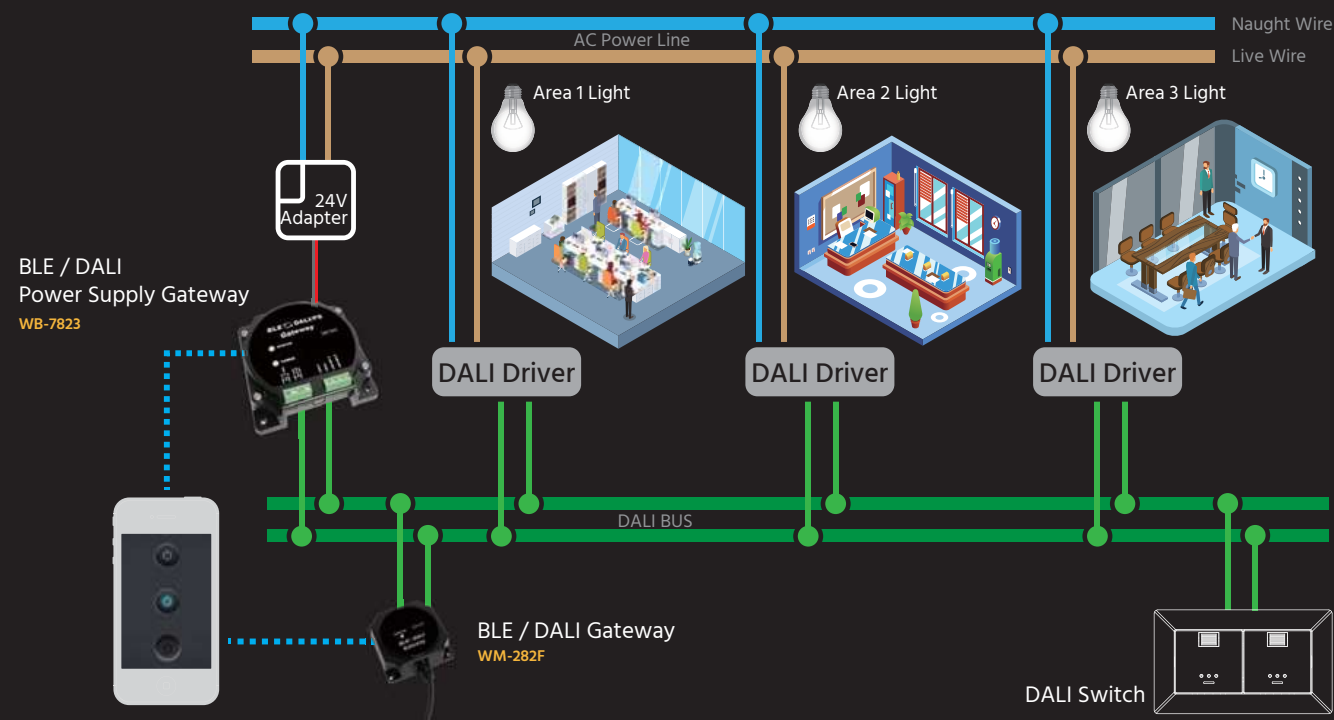
Welcome to contact us any time.



GPS Logger Module



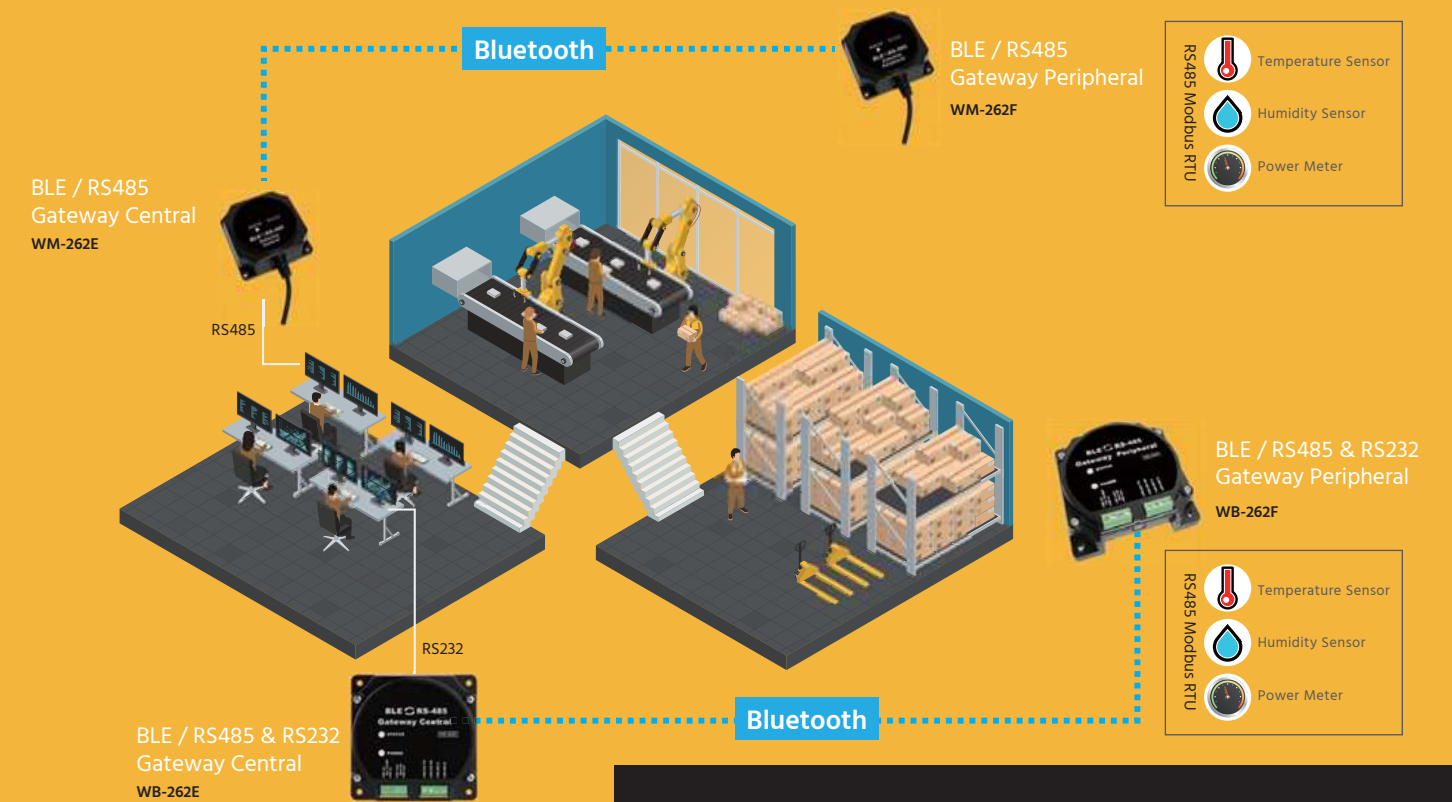
GPS Logger



BLE / DALI GATEWAY

Smart Lighting Control System

The system is applied a variety places for office building, campus, shopping malls, community, hotel industries. We will be the best partner for system Integrator who is engaged in intelligent city, architecture and building.



BLE / RS485(RS232) GATEWAY

Inventory and Warehouse Management Solutions

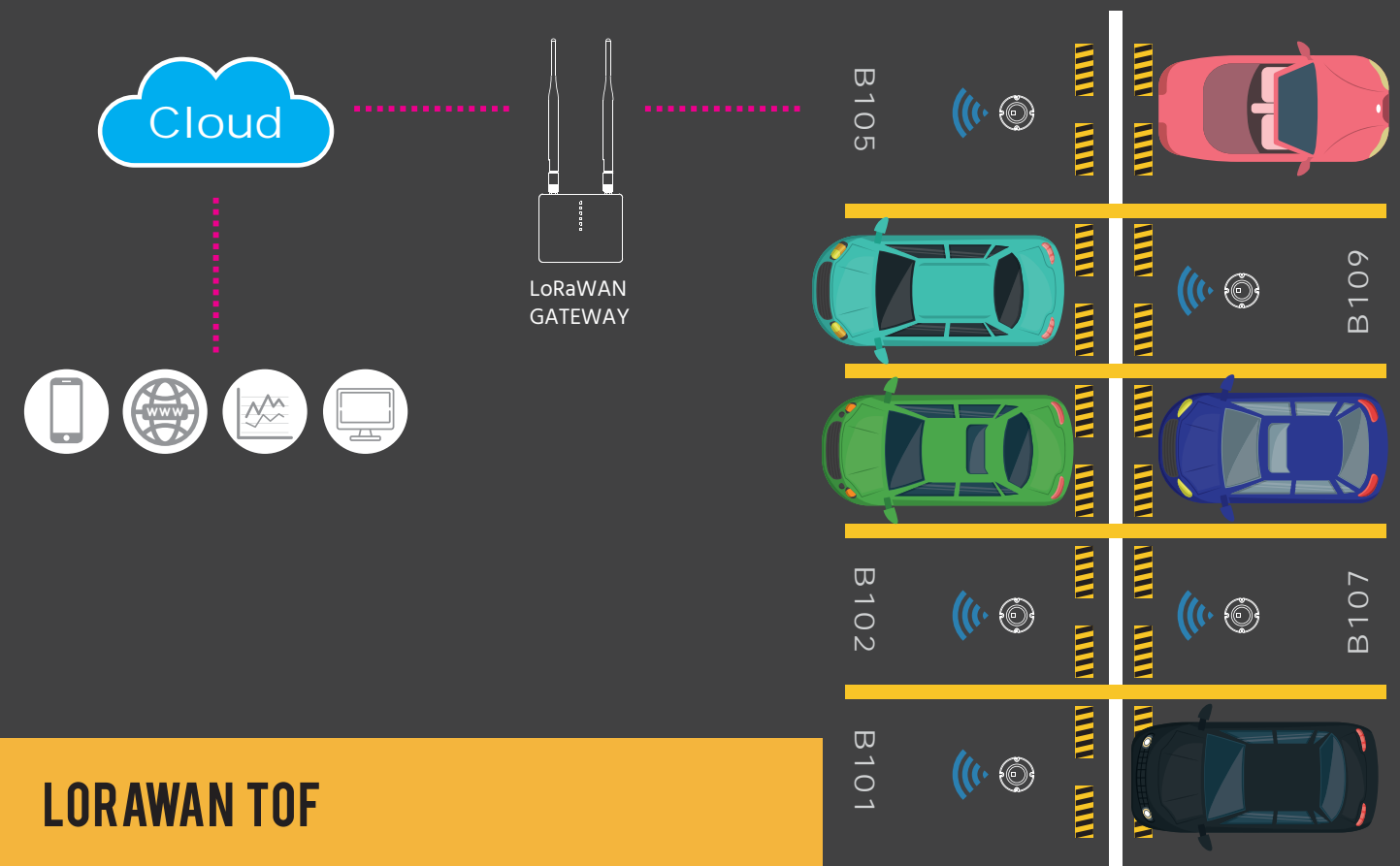
Do you just want to monitor the status of the production line, but do not want to carry out large-scale construction? Wireless monitoring solutions are just your ideal choice.



BLE DATA LOGGER

Applications of Tooling with Data Logger

How to show your quality of machine / equipment / environment for your clients. Using the Industrial Data Logger to record the parameters of machine / equipment / environment then show to them. Increasing clients satisfaction and business chances.



LORAWAN TOF

Smart Parking Solution

Uses geomagnetic sensors that are easy to install and have low maintenance costs to provide users with the most immediate and effective parking management for each parking space and each region.

www.win-tec.com.tw

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