

# PRODUCT CATALOG



5G lte 4G 3G 2G GPS GNSS

sigfox LoRaWAN NB-IoT LTE-M

WIREPAS Things connected - Naturally Wi-Fi Bluetooth NFC RFID

# ABOUT US

## BRIEF OVERVIEW

Distributor with a great added value since 2003, GigaConcept is a key actor in the materials and components distribution for the radio frequencies transmissions systems and wireless telecommunication.

More than 20 years of knowlege and expertise in electronic developments, radiofrequencies, RFID and customised coaxial connections confer them a know-how acknowledged by major industrial groups, either in the components choice (antennas, gateways, modules,...) or by providing customised solutions.

With an experimented R&D division, GigaConcept advises and supports customers in system prototyping and provides performing solutions, particularly used in aeronautics and Defense, automotive, medical supplies, logistics, automation and also for telephone operators and their subcontractors.

From embedded mobile systems to connected devices solutions (IoT), the emerging of new technologies (LTE-M, NB-IoT, 5G, LoRa, Sigfox...) makes GigaConcept a reliable partner, efficient and definitely farsighted for technologies future.



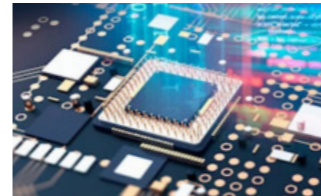
**20** MORE THAN  
**YEARS**  
OF **EXPERTISE**



The first antennas were built in 1888 by German physicist Heinrich Hertz.

Today, GigaConcept sells the best of them.

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### OUR PARTNERS



### DISTRIBUTED BRANDS



## ONCE UPON A TIME...

Wireless communication has been around since the 18th century when James Clerk Maxwell first proposed that electromagnetic waves can be generated and can travel through free space. Heinrich Rudolf Hertz conducted the experiments in which he demonstrated the generation, transmission, and reception of electromagnetic waves, which became the basis of Radio Frequency communication.

From the 1990s onwards, wireless communication found a different dimension apart from its use in telecommunication, military, and space applications. This was the use of low-band radio frequency communication for data transfer to smaller distances. The telecommunication sector utilized this by introducing the technologies like Bluetooth for transferring data from one device to another over a few meters and Wi-Fi for routing internet wireless in a home or office environment.

In the modern age, radio communication or radio frequency communication refers to wireless communication through the air with electromagnetic wave frequencies ranging from 3 kHz to 300 GHz. Wireless communication is now classified by the medium electromagnetic waves propagate through.

Based on the medium, radio communication or radio frequency communication is called radio frequency communication if the medium of EM waves in the air includes high-frequency, line of sight communication, and low-frequency radio communication.

The radio spectrum refers to an entire range of electromagnetic frequencies that are designated for all of the radio frequency communication. It encompasses frequencies from 3 kilohertz (kHz), which correspond to extremely low-frequency signals, up to 300 gigahertz (GHz), which include extremely high-frequency signals used in advanced technologies such as millimeter-wave communications and radar systems.

High frequencies like microwaves ranging from 300 MHz to 300 GHz have line of sight limitations in the radio spectrum. Radio frequencies in lower ranges with higher wavelengths do not have a line of sight limitation. They can easily cover obstacles in their path and reach their destination due to the large wavelength of the signals.

Radio communication is widely used in military and commercial sectors, which is why each country regulates its spectrum.

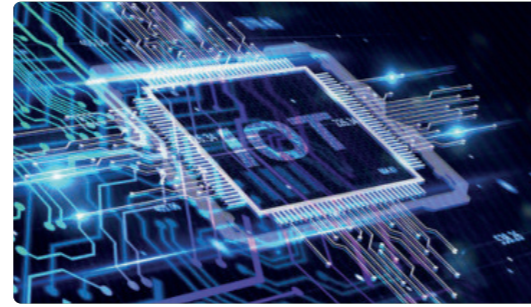
“ It all started when Guglielmo Marconi developed the first wireless telegraph system in 1896.

# Product conception

## FROM CONCEPT TO CREATION

### WE TRANSFORMS IDEAS INTO HIGH PERFORMANCE SOLUTIONS

To support our clients in building efficient and reliable industrial IoT systems, each solution is created with a specific purpose to meet real-world needs in the field, whether it's improving connectivity, simplifying deployment, or enabling better data management and decision-making across complex infrastructures.



#### NETWORK CELL ANALYZER

cf. page 43

A professional tool designed to analyze the radio performance unlike other solutions it perform real-time measurements directly from the tested area without relying on online databases ensuring accurate results even in complex environments with walls floors or interference.



#### LORAWAN™ AUDIT SUITCASE / EDUCATIONAL SUITCASE

cf. page 39

Gigaconcept's LoRaWAN Audit Suitcase is a fully autonomous and pre-configured solution designed to perform LoRa network coverage tests before deploying an IoT ecosystem. Equipped with a CloudGate IoT gateway a LoRa 868 MHz fibreglass antenna and a built-in 12V battery it allows mobile and efficient testing in any environment.

An educational version is available educational IoT case offers a simple and intuitive way to explore LoRaWAN Modbus and other industrial protocols.



#### COAXIAL CABLES / CONNECTORS / ADAPTORS

cf. page 64

Gigaconcept provides custom RF connectors to match specific installation for any type of needs. We offer various stripping options and adapt connector types like SMA N-type BNC and TNC to ensure reliable signal transmission across antennas modems routers and gateways. We also offer customization and cable processing services :



Cutting machine



Stripping



Crimp



Touret/crown

## CUSTOM PRODUCTS AND SOLUTIONS

Gigaconcept delivers custom products and solutions tailored to your technical and operational needs



#### OPTIMAGATE LORAWAN / 4G GATEWAY

cf. page 35

OptimaGate is a compact and intelligent IIoT gateway designed for industrial automation and smart building applications, it supports a wide range of protocols including LoRaWAN, Modbus, BACnet, MQTT, Zigbee, Wi-Fi, Bluetooth, RS485 and 4G enabling seamless integration of diverse devices.

Powered by a Raspberry Pi CM4 with AI capabilities it offers fast sensor pairing real-time data visualization and scenario creation via Node-RED.

Its DIN rail mount and multiple connectivity options make it ideal for HVAC control energy monitoring and remote system management in complex environments.

#### GATEWAY SOFTWARE SOLUTION

cf. page 33



*Creating a professional IoT and IIoT network and scenarios has never been this easy. It is fast and does not even require any programming knowledge.*

IoT Wizzard is a smart configuration assistant designed to simplify the setup of IoT and IIoT networks, it enables fast pairing of LoRaWAN sensors and seamless communication between devices using different protocols like Modbus BACnet and MQTT.



### But Also



#### SIM CARD

cf. page 37

Industrial-grade M2M SIM cards designed for IoT applications offer reliable connectivity across France, the EU, and globally.

They support flexible subscription or prepaid plans and automatically connect to the strongest available network, ensuring seamless data transmission to your IoT platform for real-time control.

DISCOVER A SELECTION OF THE MOST POPULAR ANTENNAS AND **HUNDREDS MORE** ON [GIGA-CONCEPT.FR](http://GIGA-CONCEPT.FR)

## ULTRA-HIGH-EFFICIENCY, PREMIUM QUALITY ANTENNAS

In today's connected society, smartphones are ubiquitous tools for communication and data access. However, certain environments such as warehouses often suffer from limited cellular coverage. In these areas, weak 5G NR, 4G-LTE, 3G or 2G signals can significantly impair device connectivity and performance



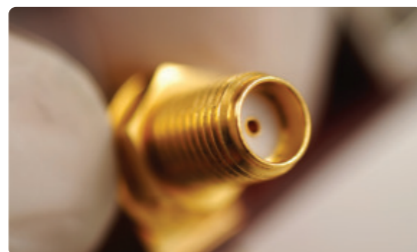
# MAKE YOUR OWN ANTENNA IN ONLY 3 STEPS

### 1. Design & IP/IK protection



- PCB / Telematics / L bracket
- IP & IK Protection
- ISO/TS 16949:2009 (automotive std)
- EN ISO 14001:2004 (environmental)

### 2. Connector & Cable length



All connector types and cable lengths are fully customizable upon request to meet your specific connectivity, integration and deployment needs. Contact our sales team: SMA / UFL / N / FAKRA / SMB, and more.

### 3. All Frequencies You Need











With advanced 3D modeling techniques, we design antennas tailored to your specific requirements. Our multiple solutions support: GSM, GPRS, UMTS, 4G/LTE, GPS, Glonass, Galileo, Tetra, ISM, UMTS, WiFi, Bluetooth...

## Custom Antenna solutions for specific developments

GigaConcept offers a wide range of Antennas with high quality and a wide range of frequencies.

All these antennas are thoroughly tested and adjusted to provide the best performance. GigaConcept can propose custom solutions for your specific developments.

They can be tuned to your needs and constraints, and the following features can be fully configured.

- |  |  |
|--|--|
|  Customisation        |  Prototyping service    |
|  RF measurement       |  3D printing            |
|  3D anechoic chambers |  Plastic injection      |
|  EM Simulations       |  Coaxial cable assembly |

## ALL-IN-ONE ANTENNAS

Up to 9 cables, these are compatible with any communication standards and a wide variety of technologies such as : 5G / 4G / 3G / 2G / IoT / LPWAN / WIFI / BLUETOOTH / GPS / GNSS / TETRA / UHF / VHF / IRIDIUM....etc.



<b>GC-7182BGF</b>	
4G-LTE 3G/2G WiFi TETRA/UHF GPS/GNSS IP68/IK09	
Gain	5.6dBi / 28@2.7V
Connectors	SMA (M) / SMA-RP(M)
Dimensions	Ø 96 x H 130 (mm)
Mounting	Screw Mount



<b>GC-4H85PE</b>	
4x[5G 4G-LTE 3G/2G LPWA] 4x[2.4/5GHz WiFi6E BT] IP67/IP69	
Gain	0.9dBi à 6dBi
Connectors	SMA (M) / RP-SMA (M)
Dimensions	198 x 127 x 15,7
Mounting	Adhesive



<b>GC-8606BGF</b>	
3G/2G LPWA GPS/GNSS WiFi/BT IP67/IP69	
Gain	0.1dBi / 5.1dBi
Connectors	SMA (M) / SMA-RP(M)
Dimensions	98 x 60 x 46
Mounting	Screw Mount



<b>GC-6050BGF</b>	
4G-LTE 3G/2G LPWA IoT GPS/GNSS WiFi BT IP67	
Gain	1.4dBi à 5.2dBi
Connectors	SMA (M) / RP-SMA (M)
Dimensions	80 x 74 x 14,7
Mounting	Screw Mount



<b>GC-4441PGF</b>	
IoT/LPWA 4G-LTE GNSS IP67	
Gain	5.6dBi / 28@2.7V
Connectors	SMA (M) / SMA-RP(M)
Dimensions	Ø 96 x H 130
Mounting	Screw Mount



<b>GC-6A50BFC</b>	
4G-LTE 3G/2G LPWA/IoT GPS/GNSS WiFi/BT 2.4/5GHz IP69	
Gain	5dBi WiFi / 28dB GNSS
Connectors	SMA (M) / RP-SMA (M)
Dimensions	Ø77.3 x 65.5
Mounting	Screw Mount



<b>GC-6550BGFA</b>	
2x[4G-LTE 3G/2G] 2x[2.4/5GHz WiFi/BT] LPWA GPS/GNSS IK09	
Gain	0.4dBi à 3.2dBi
Connectors	SMA (M)
Dimensions	135.5 x 30
Mounting	Screw Mount



<b>GC-4A50PCFA</b>	
2x[4G-LTE 3G/2G] 2x[2.4/5GHz WiFi/BT] IoT LPWA GPS/GNSS IP67/IP69	
Gain	4dBi / 28dB
Connectors	SMA (M) / RP-SMA (M)
Dimensions	61.8 x 155.6 x 17.0
Mounting	Adhesive



### KEY FEATURES

- Active gain up to 10 dBi
- Ultra Wide band Antenna
- SMA / RP-SMA / FME / FAKRA / RG
- Compatible with a lot of technologies
- No compromise on performance

### UNLIMITED CUSTOMIZATION

- Custom manufacturing
- Multiple form factor
- Prototyping service
- EM simulations on demand
- Customizable cable and connector

### SCREW, ADHESIVE, AND MORE :



## 5G NR / 4G-LTE / 3G / 2G ANTENNAS

Delivering faster connections and greater capacity, the advantage of 5G is the fast response time referred to a low latency. For modems, routers, amplifiers, modules, cellulaires, véhicules and more. With a frequency range of 900 MHz and up to 2600 MHz, they are best used with modems, routers, gateways, aggregators, signal amplifiers, IoT and more.



GC-W1683

5G NR/4G-LTE/3G/2G LPWA

Gain	-6.0dBi à 2.9dBi
Connectors	SMA (M)
Dimensions	Ø10 × 80 (mm)
Mounting	Connector Mount



GC-2183K

5G NR/4G-LTE/3G/2G LPWA

Gain	1.9dBi à 4.0dBi
Connectors	SMA (M)
Dimensions	271 × 30 × 115
Mounting	Wall Mount



GC-SDBF05

4G-LTE Fibreglass

Gain	8dBi
Connectors	N-Female
Dimensions	Ø16 × 600
Mounting	Wall Mount



GC-4983P

5G NR/ 4G-LTE 3G/2G LPWA IP67/IP67

Gain	0.5dBi à 3.5dBi
Connectors	SMA (M)
Dimensions	150.5 × 42 × 15.3
Mounting	Adhesive



GC-6C86MCFa

2x[5G 4G-LTE 3G/2G LPWA]  
2x[2.4/5GHz WiFi6E] GPS/GNSS IP69

Gain	6.6dBi / 28dB@2.7V
Connectors	SMA (M) / SMA-RP (M)
Dimensions	193 × 76.5 × 57 (mm)
Mounting	Magnetic



GC-9607JBWGF

UHF/TETRA 380-470 MHz LPWA  
GPS/GNSS IP67

Gain	-2.0dBi / 24dB@5V
Connectors	SMA (M)
Dimensions	266 × 110 × 74
Mounting	Screw, Adhesive, Pole



GC-M1901GF

GNSS active ceramic with pre-filter  
GPS/QZSS/GLONASS/Galileo

Gain	28dB@2.7V
Connectors	U.FL
Dimensions	13 × 13 × 6,6
Mounting	Snap-in module



GC-6975MPGF

5G 4G-LTE 3G/2G LPWA GPS/GNSS  
Iridium IP67/IP69

Gain	5.1 dBi / 28dB@2.7V
Connectors	SMA (M)
Dimensions	89 × 76 × 27/30
Mounting	Adhesive, Magnetic



GC-W0124z-011

4G-LTE/3G/2G LPWA

Gain	0.4dBi à 2.6dBi
Connectors	SMA (M) / SMA-RP(M)
Dimensions	171 × 38 × 13,8
Mounting	Connector Mount



GC-3024M

4G-LTE 3G/2G LPWA

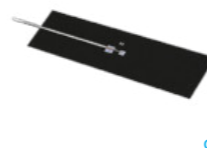
Gain	1.0dBi à 2.4dBi
Connectors	SMA (M)
Dimensions	Ø 31 × 72
Mounting	Magnetic



GC-6024MP

4G-LTE/3G/2G LPWA

Gain	0.7dBi à 4.4dBi
Connectors	SMA (M)
Dimensions	80 × 76 × 13
Mounting	Adhesive, Magnetic



GC-P0124

4G-LTE/3G/2G broadband LPWA

Gain	1.5dBi à 3.5dBi
Connectors	SMA (M) / RP-SMA (M)
Dimensions	136.8 × 32.6 × 0.4
Mounting	Adhesive and flexible



GC-6B86BCFF

4x[5G 4G-LTE 3G/2G LPWA]  
4x[2.4/5GHz WiFi6E BT] GPS/GNSS

Gain	8dBi / 28 @ 2,7 V
Connectors	SMA (M) / SMA-RP (M)
Dimensions	199 × 167 × 53
Mounting	Screw mount



GC-4701B-TH19

4G-LTE 3G/2G LPWA/IoT GPS/GNSS  
WiFi/BT 2.4/5GHz IP69

Gain	3.9dBi / 32dB@5V
Connectors	SMA (M)
Dimensions	Ø 52 × 17.5
Mounting	Screw mount



GC-4301MPFX

GPS/GNSS QZSS Galileo  
hemisphere IP67

Gain	3.9dBic / 24dB
Connectors	SMA (M)
Dimensions	38 × 34 × 13.5/14.5
Mounting	Adhesive, Magnetic



GC-F0301P

GPS/GNSS PCB Glonass Beidou Galileo

Gain	3.7dBi à 4.0dBi
Connectors	U.FL
Dimensions	55,4 × 12,4 × 0,2
Mounting	Adhesive and flexible

## GPS / GNSS ANTENNAS

Antennas designed to receive and amplify the radio signals transmitted on specific frequencies by GNSS satellites and convert them to an electronic signal for use by a GPS/GNSS receiver. The output of these antennas is fed into a GNSS or GPS receiver that can compute the position. Include : GPS, GNSS, Glonass, Galileo, BeiDou, QZSS & IRNSS.



### AND HUNDREDS MORE...

#### UNLIMITED CUSTOMIZATION

- Custom manufacturing
- Multiple form factor
- Prototyping service
- Customizable cable & connector

### ...ON GIGA-CONCEPT.FR

#### SCREW, ADHESIVE, AND MORE :



## LPWAN ANTENNAS

Antennas using LPWA technology, including NB-IoT, Cat-M, LoRa and Sigfox. The frequency used is 868 MHz. With LPWA technology, excellent performance in terms of power consumption and reduced maintenance costs are achieved.



EP868M07

<b>Robust LoRaWAN ground anchor Vehicle resistant IP67/IK09</b>	
Gain	2.38dBi
Connectors	SMA (M)
Dimensions	150 x 2
Mounting	Screw Mount



GC-W0315

<b>868 MHz LPWA IoT dipole (available in 915 MHz)</b>	
Gain	1.4dBi
Connectors	SMA (M)
Dimensions	113 x Ø10
Mounting	Screw Mount



GC-F115P

<b>PCB 868 MHz IoT/LPWA LoRaWAN</b>	
Gain	1.8dBi
Connectors	U.FL
Dimensions	40.0 x 7.0 x 0.2
Mounting	Adhesive



GC-120BF

<b>IoT/LPWA GSM WiFi Bluetooth</b>	
Gain	0dBi
Connectors	On request
Dimensions	29 x 76 (mm)
Mounting	Screw Mount



GC-7303MG-2.4

<b>ISM 2.4GHz - GPS/GNSS IP67/69K</b>	
Gain	2dBi / 27dB@5V
Connectors	SMA (M) / SMA-RP(M)
Dimensions	Ø 54 x 141 (mm)
Mounting	Magnetic



GC-5502P

<b>2.4/5GHz WiFi6E BlueTooth Zigbee</b>	
Gain	0.3dBi à 3.3dBi
Connectors	RP-SMA (M)
Dimensions	71 x 25 x 7
Mounting	Adhesive



GC-9C34JW

<b>Iridium + GPS/GNSS IP67</b>	
Gain	5.1dBi à 5.7dBi
Connectors	TNC (F)
Dimensions	Ø 74 x 116
Mounting	Pole



GC-9126JBW

<b>Iridium hemispherical outdoor IP67</b>	
Gain	4.5dBi
Connectors	TNC (F)
Dimensions	130 x 110 x 74
Mounting	Wall Mount, Adhesive



GC-60158-868

<b>868 MHz IoT/LPWA LoRaWAN IP67</b>	
Gain	2.5dBi
Connectors	SMA (M)
Dimensions	80 x 74 x 14.7
Mounting	Screw Mount



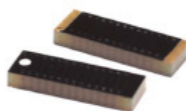
GC-OA868M03NF

<b>868 MHz IoT/LPWA LoRaWAN/Sigfox IP67</b>	
Gain	3dBi
Connectors	N-Female
Dimensions	Ø 24 x 320
Mounting	Wall, Mast Mount



OA-8696-02

<b>IoT 868 Fibreglass Outdoor wall/mast</b>	
Gain	8dBi
Connectors	N-Female
Dimensions	1145 x Ø34
Mounting	Wall, Mast Mount



GC-E41

<b>868 MHz IoT/LPWA Fibreglass PCB</b>	
Gain	2.2dBi
Connectors	-
Dimensions	12 x 4 x 1.6
Mounting	Embedded



GC-8410B

<b>UHF/TETRA 380-470 MHz LPWA IP67/69</b>	
Gain	2.2dBi
Connectors	SMA (M)
Dimensions	99 x 60 x 154
Mounting	Screw Mount



GC-D0710-011

<b>UHF/TETRA 380-470 MHz dipole antenna</b>	
Gain	-1.2dBi
Connectors	SMA (M)
Dimensions	Ø 13.6 x 138
Mounting	Screw Mount



GC-46D-UHF-052

<b>ISM Fibreglass 450-470MHz IP66</b>	
Gain	6 dB, 3 dBd, 5.1 dBi
Connectors	N-Female
Dimensions	1340 x Ø29 mm
Mounting	Mast Mount



GC-5410P

<b>High Gain TETRA 380-470 MHz UHF/LPWAN</b>	
Gain	2.8 dBi
Connectors	SMA (M)
Dimensions	60 x 112.5 x 11.3
Mounting	Adhesive

## OTHER RANGES OF ANTENNAS

A wide range of antennas is available to support various wireless protocols, including Wi-Fi, Bluetooth, and Zigbee (operating in the 2.4GHz, 5GHz, and 6GHz bands), as well as Iridium, TETRA and UHF/VHF.

### AND HUNDREDS MORE...

- UNLIMITED CUSTOMIZATION**
- Custom manufacturing
  - Multiple form factor
  - Prototyping service
  - Customizable cable & connector

### ...ON GIGA-CONCEPT.FR

SCREW, ADHESIVE, AND MORE :



## HIBOOST Amplifiers / GSM

# HiBOOST

LCD Signal Boosters



### MOBILE SIGNAL REPEATERS WHEREVER YOU ARE



#### .....HOW DOES IT WORK?

The amplifier receives a weak 5G/4G/3G/2G signal from the outdoor antenna. The weak signal goes to the repeater where it is amplified. The amplifier enhances and broadcasts the signal in your place thanks to indoor antenna(s).

#### IMPROVE THE MOBILE RECEPTION WITH STRONGER 5G/4G/3G/2G SIGNAL

With Hiboost 5G/4G/3G/2G signal booster you can improve 5G/4G/3G/2G signal even in weak or no mobile signal like in remote areas, basement or thick-walled buildings. This device captures and amplifies existing signals, even the faintest one and redistributes them to ensure stable and strong reception

#### OPEN UP NEW BUSINESS PERSPECTIVES

Boost 5G/4G/3G/2G mobile data speeds in your office and see the working efficiency!




## HIBOOST Amplifiers / GSM



Model	HI23-6S-Plus	HI20-6S-Plus	HI23-5S	HI20-5S	HI17-5S	HI13-5S
Networks	NR700 LTE800 EGSM900 DCS1800 WCDMA2100 LTE2600 MHz	NR700 LTE800 EGSM900 DCS1800, WCDMA2100 LTE2600 MHz	EGSM 900 DCS 1800 3G 2100 4G LTE 800&2600	EGSM 900 DCS 1800 3G 2100 4G LTE 800&2600	EGSM 900 DCS 1800 3G 2100 4G LTE 800&2600	EGSM 900 DCS 1800 3G 2100 4G LTE 800&2600
Coverage	Up to 5500m <sup>2</sup>	Up to 4500m <sup>2</sup>	Up to 5500m <sup>2</sup>	Up to 4000m <sup>2</sup>	Up to 1800m <sup>2</sup>	Up to 1000m <sup>2</sup>
Max.Gain	75dB	65dB	75dB	70dB	65dB	65dB

## GIGACONCEPT AMPLIFIERS LoRaWAN™ / SIGFOX - GNSS


### AMPLIFIER | 868 MHz LoRaWAN™ sigfox



Frequency	869 ± 1 MHz
Gain	29 (up-link) / 32 (down-link)
VSWR	1.4 : 1
Noise Figure	5 dB
Antennas	2 x SMA Female
Voltage	12 v / 130 mA

Frequently used to bring signal to connected objects placed in constrained locations, and especially in white zones, this LoRaWAN™/ Sigfox signal amplifier is specially designed for IoT professionals and connected object installers.

### GNSS BOOSTER PACK: GPS/GNSS REPEATER + 2 ANTENNAS GPS GNSS



Frequency	1559-1606 / 1164-1254 MHz
Gain	30 dB max
VSWR	1.80:1
Noise Figure	5 dB
Antennas	2 x SMA Female
Voltage	12 v / 400 mA

Designed to solve GPS reception problems in enclosed or covered areas. The GPS signal is received via an external antenna and then retransmitted without loss via the internal antenna.



## SEMTECH Modules / RC Series



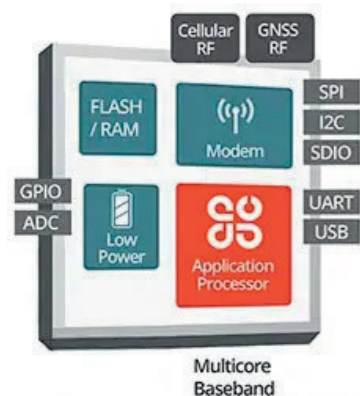
**RC Series modules** are one of the **smallest, scalable, flexible** solution in a compact and easy-to-integrate form factor that is completely interchangeable among 2G, 3G, and 4G technologies.

Compact form factor, network scalability, and ready-to-use firmware upgrades make these modules **ideal for industrial M2M solution designs** where size and deployment longevity are important considerations.

The industrial-grade CF3® (Common Flexible Form Factor) footprint future-proofs designs, enabling IoT products to be based on the world's most scalable module platform. Ideal for IoT applications such as industrial manufacturing, smart cities, telematics, and mission-critical network applications.

### Feature and Benefits

- Enhanced coverage with dual SIM single standby to switch between networks quickly
- Embedded SIMs with optional Ready-to-Connect solutions streamline operations and add flexibility
- Secure boot to prevent unauthorized code on the target and value-add firmware with FREE unlimited firmware over-the-air (FOTA) upgrades for lifetime of the module to keep the connectivity optimized
- Integrated GNSS receiver (LPWA/2G/3G variants) enables tracking and location-based services



### 4G Cat-4

AirPrime module	Region (carrier)	Bands	Fallback
RC 7611	Americas (Semtech)	4G-LTE	-
RC 7620	EMEA / Australia (Semtech)	4G-LTE	2G, 3G
RC7630	Korea, Japan	4G-LTE	-

### 4G Cat-1

AirPrime module	Region (carrier)	Bands	Fallback
RC 7611-1	Americas	4G-LTE	-
RC 7620-1	EMEA / Australia (Semtech)	4G LTE	3G, 2G
RC7630-1	Korea, Japan	4G LTE	-

### 4G Cat-1 bis

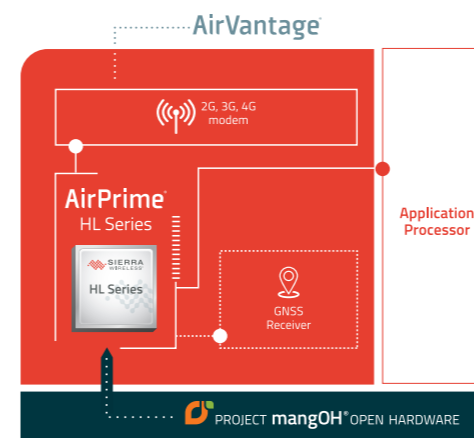
AirPrime module	Region (carrier)	Bands	Fallback
RC7110	Americas	4G-LTE	-
RC7120	EMEA / Australia (Semtech)	4G-LTE	-

## SEMTECH Modules / HL Series



### Feature and Benefits

- Enhanced coverage with dual SIM single standby to switch between networks quickly
- Embedded SIMs with optional Ready-to-Connect solutions streamline operations and add flexibility
- Secure boot to prevent unauthorized code on the target and value-add firmware with FREE unlimited firmware over-the-air (FOTA) upgrades for lifetime of the module to keep the connectivity secure
- Integrated GNSS receiver (LPWA/2G/3G variants) enables tracking and location-based services



**HL Series modules** are one of the **smallest, scalable, flexible** solution in a compact and easy-to-integrate form factor that is completely interchangeable among LTE-M, NB-IoT, 2G, 3G, 4G and 5G technologies.

It features integrated GNSS, and support for 3GPP's Release 14/15/16/17, enabling new-generation low-power use cases while providing flexible connectivity options, enhanced coverage, and cost savings.

The **HL Series modules** simplifies and de-risks low-power deployments across critical applications such as smart energy, smart cities, logistics and asset tracking.

### Ultra Low power, 5G LPWA, CatM1/NB IOT



AirPrime module	Region (carrier)	Bands	Fallback
HL 7900	EMEA	5G	4G-LTE

### LTE-M (Cat-M1) / NB-IoT (Cat-NB1/NB2)

AirPrime module	Region (carrier)	Bands	Fallback
HL 7800	Global (Planned: AT&T, Verizon, Telstra, Vodafone, KDDI, T-Mobile)	4G-LTE	-
HL 7802	Global (AT&T, Orange, Verizon, Vodafone, Semtech)	4G-LTE	2G
HL 7810	Global	4G-LTE	2G
HL 7812	Global	4G-LTE	2G
HL 7845	Europe	4G-LTE	-

### 4G Cat-4

AirPrime module	Region (carrier)	Bands	Fallback
HL 7692	EMEA	4G-LTE	2G

## SEMTECH Modules / EM Series



### Feature and Benefits

- Accelerate deployment and streamline logistics
- Protects the data and minimize risk
- Enhanced coverage with dual SIM single to switch between networks quickly
- Embedded SIM to simplify and add flexibility to IoT deployments.
- Carrier profile, M2M eUICC, and consumer eUICC are available based on customer use case
- Speed up development time and simplify integration complexity
- Integrated GNSS receiver enables tracking and location-based services for increased accuracy

**EM series modules** offers global 5G and 4G-LTE connectivity. Designed in an M.2 form factor is compatible with others Semtech's modules for a simple upgrade path to mmWave for easy migration and differentiation between 4G-LTE and 5G.

Offers downlink speeds of up to 4.5 Gbps and uplink speeds of 660 Mbps. With 4G and 3G automatic fallback and an integrated GNSS receiver (supporting GPS, Glonass, Beidou, and Galileo satellite systems), the **EM series** is applicable to a wide range of IoT applications.

### EM Series 4G-LTE-A Pro (Cat-13)

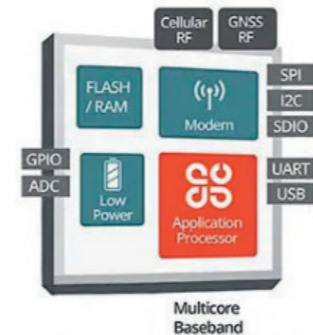
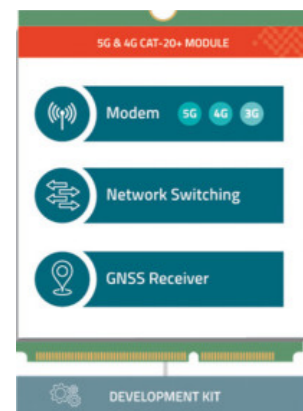
AirPrime module	Region (carrier)	Bands	Fallback
EM 7590	Global (AT&T FirstNet), Verizon, T-Mobile, Tesltra, NTT Docomo, KDDI, Softbank)	4G-LTE	3G

### EM Series 5G RedCap

AirPrime module	Region (carrier)	Bands	Fallback
EM8695	Global (AT&T FirstNet), Verizon, T-Mobile, Tesltra, NTT Docomo, KDDI, Softbank)	5G RedCap	4G-LTE

### EM Series 5G-NR-Sub-6 GHz (Cat-20)

AirPrime module	Region (carrier)	Bands	Fallback
EM 9190	Global (AT&T FirstNet, NTT Docomo, Verizon, T-Mobile, Tesltra)	5G NR	4G, 3G
EM 9191	Global (AT&T FirstNet, NTT Docomo, Verizon, T-Mobile, Tesltra)	5G NR	4G, 3G
EM 9291	AT&T (FirstNet), Verizon, NTT Docomo, T-Mobile, Telstra, Softbank, KDDI, LGU+, Dish	5G NR	4G, 3G

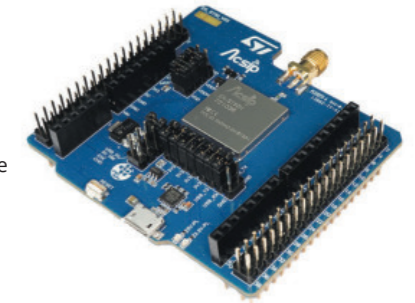


## ACSIP IoT Module



**AcSiP** specializes in compact **System-in-Package (SiP)** wireless modules designed for IoT applications. Their solutions integrate microcontrollers with wireless technologies such as LoRa, Wi-Fi (including Wi-Fi HaLow), Bluetooth, and cellular (2G/4G), enabling seamless connectivity in smart devices, industrial systems, and remote sensors.

With a focus on miniaturization and high integration, AcSiP modules support rapid development and deployment, reducing time-to-market for OEMs and system integrators. Their products are compatible with leading MCU platforms and offer reliable performance across diverse environments, from smart cities to agriculture and logistics.



The module integrates ARM Cortex®-M4 (32-bit RISC core operating at a 48MHz frequency) MCU with LoRa modulation. With a sensitivity under -136 dBm. It has high sensitivity and combined with the integrated +21 dBm power amplifier yields. It offers an ultra-long-range spectrum communication and high interference immunity, minimizing power consumption.



This module features an ARM Cortex®-M4 (32-bit RISC core running at 48 MHz) MCU with integrated LoRa modulation. It achieves sensitivity below -136 dBm and includes a +14 dBm power amplifier. The combination ensures an stable ultra-long-range stable wireless communication, excellent interference immunity, minimal power consumption and energy efficiency.

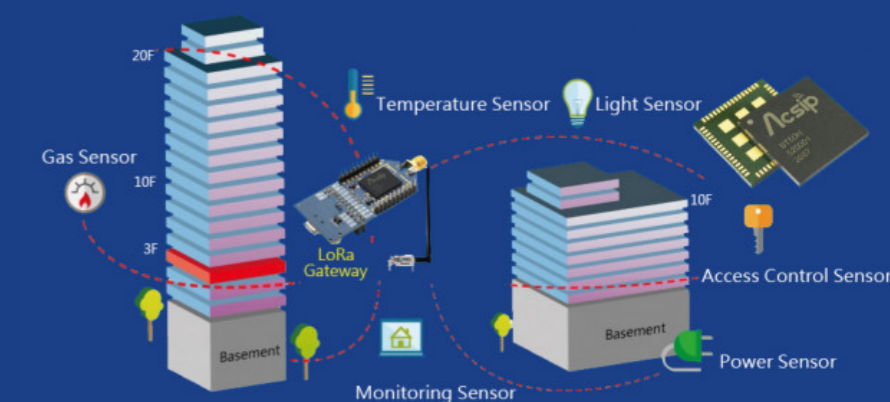


The S62F is a ultra-compact LoRaWAN™ module with very low power consumption. It can achieve a sensitivity of over -137 dBm using a TCXO and related bill of materials. The high sensitivity combined with the integrated +22 dBm(max.) power amplifier yields industry leading link budget making it optimal for any low data rate application requiring range or robustness.

### Smart Building system with LoRa connectivity

AcSiP's modules are ideal for integrating into smart building system that integrates multiple sensors across the buildings. It can be used with a central LoRa Gateway that connects to various devices like a gas sensor, temperature sensor, light sensor, access control sensor, power sensor, and monitoring sensor.

This setup enables efficient, long-range wireless communication for real-time building management and automation.



## SKYTRAQ GPS & GNSS modules

# SkyTraQ

5x5mm package  
Small Form factor



### GEOLOCATION MODULES

SkyTraQ offers **powerful GPS/GNSS modules**. These modules feature a **maximal precision while having minimal consumption**. With compact GPS module that perfectly integrates any systems while providing navigation or location applications.



### MULTI GNSS RECEIVER FOR WEARABLE AND IoT APPLICATION

PX100 is SkyTraQ's next generation multi-frequency, multi-constellation single chip GNSS receiver. It is capable of working with **7 satellite constellations** :

GPS, Galileo, GLONASS, BeiDou, NavIC, QZSS, and SBAS.

With different options, PX100 is capable of offering position accuracy ranging from **meter-level, sub-meter level, decimeter-level, to centimeter-level**.

The deadreckoning (DR) option allows continuous 3D navigation even in signal blockage environments. The precision timing option enables precise frequency generation for GNSS disciplined oscillator applications.

### About SkyTraQ...

SkyTraQ develops GPS/GNSS chipset for consumer navigation and tracking applications.

SkyTraQ's high-sensitivity GPS technology delivers state of the art TTFF performance, and enables operation under indoor and difficult urban canyon environments.

In addition to GPS chipset, SkyTraQ provides solutions to enable rapid system integration. Its offer evaluation board, reference design and technical document to facilitate customer adopting their products.



### PX100 Features

- Supports new GPS L1C & GLONASS L3OC signal
- Supports new BeiDou3 B1C / B2a signal
- Supports QZSS LEX signal
- SF GNSS acc. 2.0m CEP / DF GNSS acc. < 1.0m CEP
- RoHS and REACH compliant
- RTK accuracy 1cm + 1ppm
- Two RF inputs for narrow band SAW filters
- Notch filter for in band jammer removal
- Uses 26MHz 0.5ppm TCXO
- 5mm x 5mm QFN40 package

## SKYTRAQ GPS & GNSS modules



Module	Supported Satellites	Accuracy	Sensitivity	Update Rate	Dimension (mm)
PX1100S	GPS, Beidou, Galileo, GLONASS, QZSS	Position 2.0m CEP Velocity 0.1m/sec Time 10ns	-148dBm cold start -160dBm re-acquisition -165dBm tracking	1 / 2 / 4 / 5 / 8 / 10 / 20 / 25 Hz (default 1Hz)	10.1 x 9.7 (available in 12 x 16)
PX1100T	GPS, Beidou, Galileo, GLONASS, QZSS	Position 2.0m CEP Velocity 0.1m/sec Time 5ns (1-sigma)	-148dBm cold start -160dBm re-acquisition -165dBm tracking	1 / 2 / 4 / 5 / 8 / 10 / 20 / 25 Hz (default 1Hz)	10.1 x 9.7 (available in 12 x 16)
PX1120DP	GPS, Beidou, Galileo, GLONASS, QZSS	Position 2.5m CEP Velocity 0.1m/sec Time 12ns	-148dBm cold start -165dBm tracking	1 / 2 / 4 / 8 / 10 Hz	16 x 12.2
PX1125S-02	GPS, Galileo, QZSS, BDS	Position <1.0m CEP Velocity 0.1m/sec Time 10ns	-147dBm cold start -158dBm re-acquisition -162dBm tracking	1 / 2 / 4 / 5 / 8 / 10 Hz (default 1Hz)	16 x 12.2
PX1122C	GPS, BDS, Galileo, GLONASS, QZSS	Position <1.5m CEP Velocity 0.5m/sec Time 12ns	-	1 / 2 / 4 / 5 / 8 / 10 / 20Hz	16 x 12.2
PX1122R	GPS, Beidou, Galileo, GLONASS, QZSS	Position 2.0m CEP autonomous mode 1cm + 1ppm RTK mode Velocity 0.05m/sec Time 12ns Moving Base Heading : 0.13 degree	-148dBm cold start -160dBm tracking	-	16 x 12.2

Specifications For PX1100S / PX100T / PX1120DP / PX1125-02 / PX1122C / PX1122R	
Startup Time	29 second cold start TTFF 3.5 second TTFF with AGPS 1 second hot start
Reacquisition	1s
Input Voltage	3.3V DC +/-10%
Weight	1 to 2g
Operating Temp	-40° C +85°C
Storage T°	-55 ~ +100°C
Humidity	5% ~ 95%



### DEVELOPMENT BOARD

Printed circuit board containing a micro-processor and minimal supporting logic necessary for a computer engineer to be familiar with to program it.



## FIBOCOM GPS & GNSS modules



### COMMUNICATION MODULE

Fibocom modules provide efficient and affordable wireless communication solutions for mass-market IoT.

From **5G wireless** modules to **IoT modules**, **smart modules** and **GNSS**, the range is widely deployed by enterprises and operators around the world. Fibocom offers a wide variety of **GSM** and **LPWA modules** to meet the connectivity requirements of a wide range of scenarios and use cases.

With over **two decades** of commitment and expertise in M2M and IoT communication technologies, Fibocom are able to bring reliable, convenient, secure and intelligent connectivity to all sectors.

Fibocom's product portfolio includes **cellular modules** (5G/4G/3G/2G/LPWA), **automotive-grade modules**, **AI modules**, **Android smart modules** and **GNSS modules**.

Fibocom thus aims to drive digital transformation in sectors such as ACPC (AlwaysConnected PC), mobile broadband, smart retail, C-V2X, robotics, smart energy, IIoT, smart cities, smart agriculture, smart home, telemedicine and more.



### KEY FIBOCOM MODULES INCLUDE

- **MBB (Mobile Broadband) modules** : These modules offer high-speed connections including 5G, LTE Cat 20, LTE Cat 18, LTE Cat 16, LTE Cat 13, LTE Cat 12, LTE Cat 9, and LTE Cat 6, and are used for applications such as mobile Internet access and broadband communications.
- **IoT modules**: Fibocom offers modules for LTE Cat 4, LTE Cat 1, LTE Cat M, NB-IoT, 3G, and 2G technologies. These modules are used in connected object (IoT) networks for applications such as remote monitoring, asset management and sensors.
- **Intelligent modules** : These modules combine wireless connectivity with processing capabilities. They are used for smart IoT applications, such as wearable devices, tracking systems and smart home solutions.
- **Automotive Modules** : Fibocom offers modules for the automotive industry, including 5G, C-V2X, LTE Cat 6, and LTE Cat 4, used for in-vehicle communications, navigation, safety and connected services.



## FIBOCOM GPS & GNSS modules

Module	Bands	Region	Form Factor	
MA510-GL	CatM : B1/2/3/4/5/8/12/13/18/19/20/25/26/27/28/66/85 NB2 : B1/2/3/4/5/8/12/13/18/19/20/25/26/28/ 66/71/85 GSM/GPRS/EGPRS : 850/900/1800/1900	Europe	LGA / LCC	
MQ771-GL	LTE : B1/2/3/4/5/8/12/13/18/19/20/25/26/28/66/71/85	Europe	LGA	
MC610-EU-20	FDD : B1/3/7/8/20/28 TDD : B38/40/41 GSM : 850/900/1800MHz	Europe	LGA / LCC	
MC610-GL-20	FDD : B1/2/3/4/5/7/8/12/13/17/18/19/20/25/28/66 TDD : 34/38/39/40/41 GSM : 850/900/1800/1900	Global	LGA / LCC	
MC665-EU-19	FDD : B1/3/7/8/20/28 TDD : B38/40/41	Europe	LGA / LCC	
LE270-EU	FDD : B1/3/7/8/20/28 TDD : B38/40/41	Europe	LGA / LCC	
FG132-GL-00	SA : N1/2/3/4/5/7/8/12/13/14/18/20/25/26/28/30/38/40/21 48/66/70/71/77/78 LTE : B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30 34/38/39/40/41/42/43/48/66/71 LTE-HPUE : B38/40/41/42/43	Global	MiniPCle	
FG132-EAU-00	NR : N1/3/5/8/20/28/38/40/41/77/78 LTE : B1/3/5/7/8/20/28/38/40/41/42/43 LTE-HPUE : B38/40/41/42/43	APAC, EMEA	MiniPCle	
FM550-EAU	5G NR : n1/3/5/7/8/20/26/28/38/40/41/66/67/71/75 76/77/78 LTE FDD : B1/3/5/7/8/20/26/28/32/66/67/71 LTE TDD : B38/40/41/42/43/48 LTE LA : B46 WCDMA : B1/3/5/8	APAC, EMEA, Europe	M.2	
SC126	LTE-FDD : B1/2/3/4/5/7/8/20/28 LTE-TDD : B38/40/41 WCDMA : B1/2/3/5/8 GSM : 850/900/1800/1900	Asia, Europe, Australia, Brazil	LGA / LCC	
SC128	LTE-FDD : B1/2/3/4/5/7/8/20/28 LTE-TDD : B38/40/41 WCDMA : B1/2/3/5/8 GSM : 850/900/1800/1900	Asia, Europe, Australia, Brazil	LGA / LCC	
SC208	LTE-FDD : B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/66/71 LTE-TDD : B34/38/39/40/41 WCDMA : B1/2/4/5/6/8/9/19 GSM : 850/900/1800/1900MHz	Global	LGA / LCC	
SC151-GL	Sub-6 : n1/2/3/5/7/8/12/14/20/25/28/30/38/40/41/48 66/71/77/78 LTE FDD : B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30 32/38/40/41/42/43/48/66/71 WCDMA : B1/2/4/5/6/8/9/19	Global	LGA	

# NOVELDA Ultra-Wideband Sensor

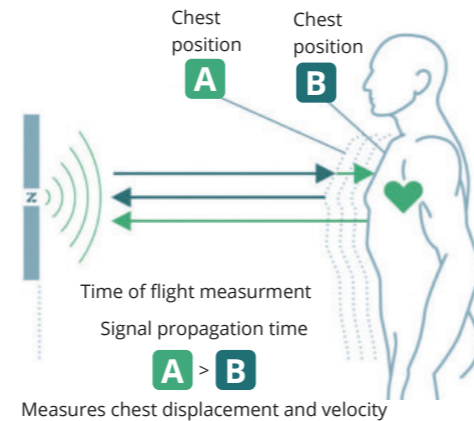
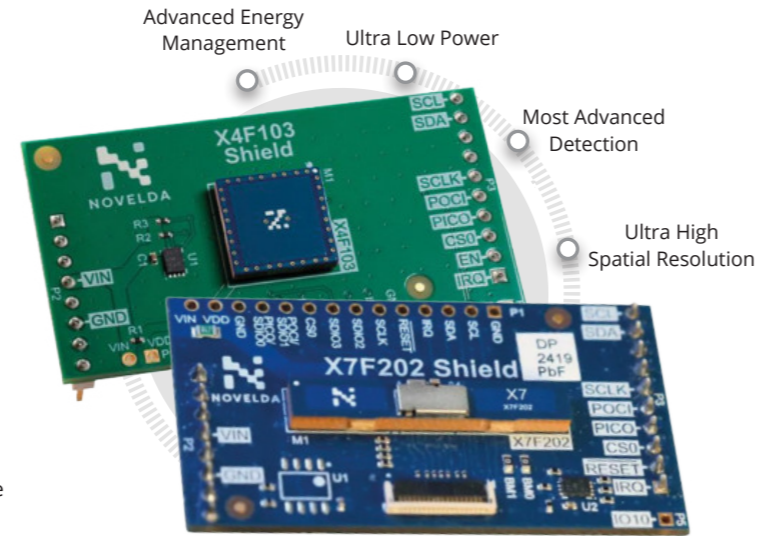


NOVELDA Ultra-Wideband Sensor is one of the world's most reliable solution for **human presence detection**. It detects the tiniest movements, like breathing and heartbeat. This is useful for a variety of indoor applications, in consumer electronics devices, in smart building systems and for in-cabin sensing in automotive.

It enables new levels of user experience, increases safety, reduces energy consumption and can contribute in saving lives. In a laptop, the sensor detects your presence and will provide touch-free log-in when you approach. The sensor will continue to detect the user presence based on small movements, like breathing, the laptop stays on even when it sit's still in front of it. When the user leaves, the laptop locks immediately, improving security and battery life.

## Features and Benefits

- Single-chip Ultra Wideband (UWB) impulse radar transceiver
- Accurate human presence detection up to a range of 10 m
- Sees through all materials except metal, operates at less than 10 GHz
- Low peak power consumption
- Advanced power management enabling low power duty cycle controlled operation
- Wide supply voltage range, 1.8 V - 3.3 V
- Industrial operating temperature range, -40°C to +85°C
- Ultra-high spatial resolution for simultaneous tracking of multiple objects
- Bi-phase coding and encoding of transmitted pulses for spectrum spreading
- Compact WLCSF, 0.4 mm pitch, 48-pin package

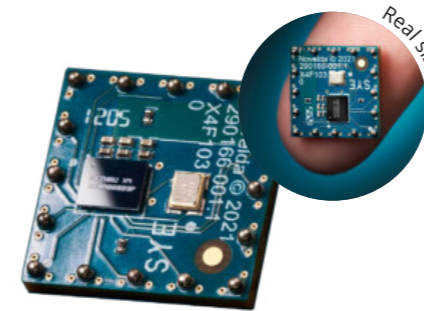


## Core Technical Capabilities

- Pulse based time-of-flight (ToF) measurement
- High penetration and material transparency
- Zone constrained sensing
- Vital sign detection
- Low power operation
- Sub-millimeter motion sensitivity
- Multi-target discrimination



# NOVELDA Ultra-Wideband Sensor

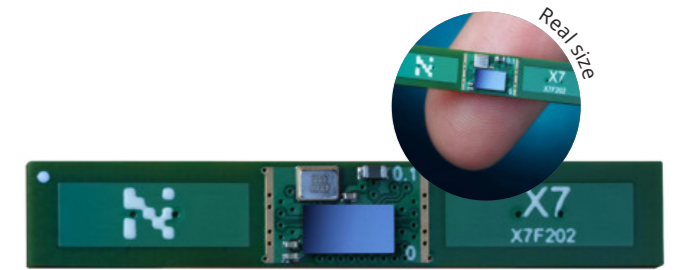


X4 - ULTRA-WIDEBAND SENSOR

Designed for ultra-precise human presence detection, the X4 offers innovative product manufacturers discreet, reliable millimeter-level accuracy with intelligent features.

The X4 combines a 7.29/8.75 GHz transmitter for global markets, a direct RF sampling receiver, a fully programmable system controller, and advanced power management functions in a single chip. The system controller can be configured via a 4-wire Serial Peripheral Interface (SPI) or a 2-wire Integrated Circuit Interface (I2C).

The X4's receive (RX) path consists of a low-noise amplifier (LNA), a digital-to-analog converter (DAC) for threshold adjustment, 1536 parallel comparators/samplers and digital integrators, and an output buffer, accessible via the SPI interface.



X7 - ULTRA-WIDEBAND SENSOR

The X7F202 is a versatile UWB pulse radar module designed for ultra-precise human presence detection.

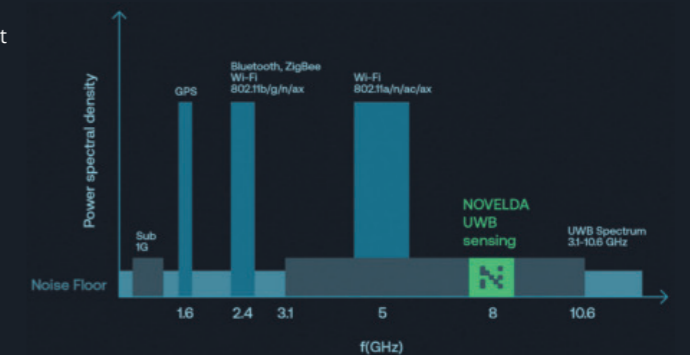
Featuring the Novelda X7 system-on-chip (SoC), it integrates two direct RF sampling receivers, advanced power management (ULPP), and two 7.875 GHz transmitters into a single chip for license-exempt operation in global markets. Capable of detecting millimeter-scale movements such as breathing with ultra-high spatial resolution, it enables simultaneous tracking of multiple people in real-time with very low power consumption.

The ULPP sensor detects the closest target within a configurable detection zone given by a set of x and y coordinates (detection range from 0.2 to 13 meters customizable up to a 180° field of view).

Unlike traditional RF systems, Novelda's UWB sensors transmit extremely short pulses across a wide frequency spectrum (typically 3.1 to 10.6 GHz), enabling high-resolution detection with very low power consumption

In comparative studies, Novelda's radar has demonstrated superior performance over other UWB solutions, particularly in vital sign and presence detection (VSPD) scenarios.

Thanks to its fine time resolution, low latency, and robust signal processing, Novelda's UWB technology is not only efficient but also highly reliable, paving the way for safer, smarter, and more responsive environments.



## CERLERWAY Flawless connectivity anytime, anywhere



### THE ONLY PROVEN OPEN SOURCE-BASED MOBILE-FIRST SD-WAN PLATFORM

Celerway unlocks the **full potential** of cellular data networks to give you constant connectivity with **blazing performance**. Not just 4G/5G backup, cellular leads the way, taking your SD-WAN further than ever before. Their multi-WAN routers deliver superior **price-per-performance** powered by CelerwayOS. Priced to scale, they're ideal for **large deployments**.

#### ARCUS/ Router



- 2x 5G / CAT12 modems – Dual SIM
- 1 CAT6, CAT11 or LTE450 modem
- 6 SIM cards (two cards per modem)
- 3 M12 Gb Ethernet ports
- WiFi – 2.4/5GHz Max 1300 Mbps

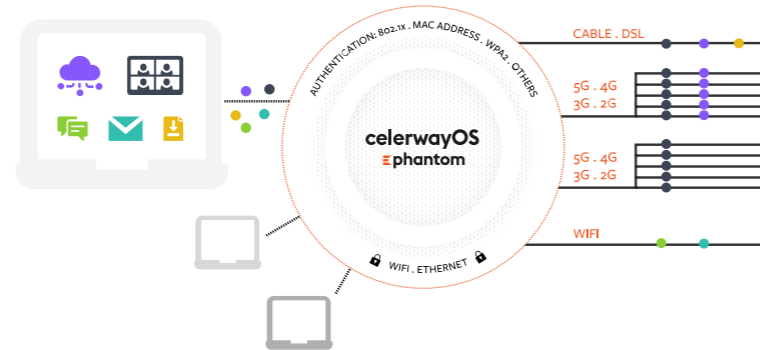
ARCUS is a rugged, **dual-5G mobile router** built with a modular architecture. Designed for **demanding environments**, it delivers over **1 Gbps of VPN throughput** and allows you to tailor your connectivity setup by combining multiple WAN types, perfectly suited for marine and remote connectivity scenarios.

#### GO/ Router



- Up to 5 simultaneous WANs
- Ultra-mobile portable router: 330g
- 1 to 2 4G-LTE Cat 12 modules
- 2.4 and 5GHz WiFi
- 2x Gigabit Ethernet / 2x USB-C

GO is a portable, battery-powered **mobile router that delivers Gigabit** class connectivity with VPN encryption virtually anywhere, while being small enough to fit in your hand or stow in a laptop case. it uses of 2 simultaneous cellular WAN connections.



#### CLOUD-BASED ADMINISTRATION

Deploy and manage your CelerwayOS devices with **Nimbus** our cloud-based remote administration system.

## QUECLINK High-speed connectivity



### HIGH-SPEED CELLULAR CONNECTIVITY, INDUSTRIAL INTERFACES AND UNIQUE IOT TELEMATICS

Queclink's range of router products combine high-speed cellular connectivity, industrial interfaces and unique IoT telematics knowledge. Suitable for a wide range of user cases, including public transportation, vending machines, kiosks, in-vehicle mobile connectivity for first responders and industrial automation.



#### WR310FEU - 5G/4G double SIM

- 5G SA/NSA, 4G-LTE / 3G Router
- 4x GbE ports (1x WAN + 3x LAN)
- WiFi 6. 802.11b/g/n/ac/ax
- I/O interfaces: 1x RS-232, 1x RS-485
- 2x SIM with automatic switching
- GNSS tracking



#### WR300FG - 5G/4G double SIM

- 5G SA, 5G NSA, 4G-LTE, 3G/2G networks
- 5 Gbps Ethernet ports (1x WAN + 4x LAN)
- RS-232 and RS-485 ports
- Dual SIM with automatic switching
- Wi-Fi 6.0 802.11b/g/n/ac/ax
- Integrated Docker environment



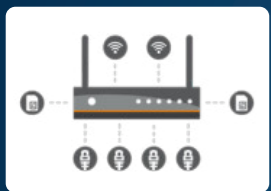
#### WR210LG - 4G-LTE double SIM

- 4G-LTE – Cat.4, 3G/2G, Double SIM
- 4 ports Ethernet (1x WAN + 3x LAN)
- 1x RS232,
- 3x RS485,
- 4x GPIO
- Wi-Fi 802.11b/g/n/ac



#### WR100LEU - 4G-LTE double SIM

- 4G-LTE - Cat.4; 3G/2G Dual SIM
- Wifi IEEE 802.11 a/b/g/n 2.4GHz
- Secure Connection / VPN
- 2 Ethernet Interfaces (1 WAN/LAN, 1 LAN)
- RS485 or RS232 Serial Port



RELIABLE HIGH AVAILABILITY NETWORK



INTELLIGENT MONITORING OF THE NETWORK IN REAL TIME



SWITCH / NETWORK FAILOVER

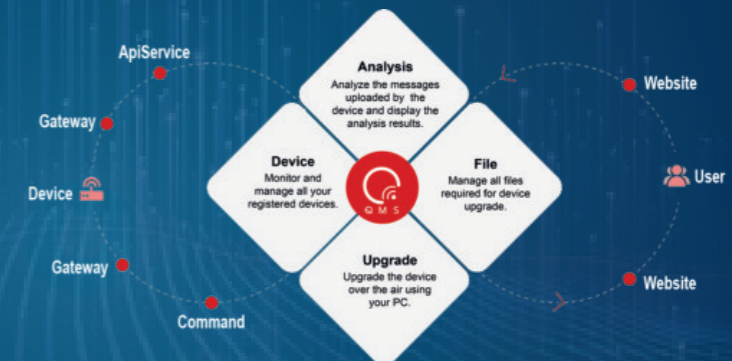
- Prevent poor Internet connection to limit productivity losses.
- Multiple wired and/or 4G LTE Internet connections to provide bandwidth.
- Provide a reliable connection for the cash register system, inventory management.
- Easily provide 4G LTE Internet access with built-in failover in the event of disruption.
- Easily provide 4G LTE Internet access to temporary locations.

## Queclink Management System

Designed for users to manage the deployed trackers in a convenient way. It is easy to monitor the trackers' status, upgrade firmware of trackers and update configuration in the trackers remotely on the platform.

### Highlights

- Task and device status in dashboard
- Full access control and audit trail
- Managed firmware upgrade with reporting
- Mass device configuration update
- Customer hosted solution



## TELTONIKA Routers, gateways and switches



### PROFESSIONAL NETWORK CONNECTIVITY EQUIPMENT FOR INTERNATIONAL MARKETS

Through long-term experience and research and development of industrial network devices for IoT and M2M communication, **Teltonika** has developed a wide portfolio of products for the most complex areas of Industry 4.0, Smart City, and Green Energy.



**TRB500 / Gateway**

- 5G sub-6 GHz CAT20
- GPS, GNSS
- Interface : Ethernet
- 2 x Configurable I/O
- 1 x Mini SIM socket
- 4 x SMA

**TRB256 / Gateway**

- 4G LTE CAT.M1, NB-IoT
- GPS, GNSS
- Interface : RS232, RS485
- 3 x Configurable I/O
- 2 x Mini SIM socket
- 2 x SMA

**TRB142 / Gateway**

- 4G LTE CAT1
- Interface : RS232
- 2 x Digital I/O
- 1 x 4 pins connector
- 1 x Mini SIM socket
- 1 x SMA

**RUTM56 / Router**

- 1 x 5G/4G modem
- 1 x 4G/3G/2G modem
- 4 x LAN + PoE / 1 x WAN
- 1 x Digital Input
- 1 x Digital Output
- 2 x SIM socket and eSIM

**RUTC50 / Router**

- 5G sub-6 GHz CAT19
- 5 x Gigabit Ethernet ports
- 1 x Digital Input
- 1 x Digital Output
- 2 x Mini SIM socket
- 4 x SMA / 3 x RP-SMA

**RUT951 PoE+ / Router**

- 4G LTE CAT4 , 3G, 2G, WiFi
- 4 x RJ45 Ethernet
- 1 x Digital Input
- 1 x Digital Output
- 2 x Mini SIM socket
- 2 x SMA / 2 x RP-SMA

**TSW100 / Switch**

- Rail DIN
- Plug-n-Play
- 5 x Gigabit Ethernet ports
- Passive PoE
- 4 pin industrial power socket
- Full aluminum housing

**TSW210 / Switch**

- Rail DIN
- 7-57 V
- Compact and rugged
- 8 x Gigabit Ethernet ports
- Passive PoE
- 2 x SFP ports

**DAP142 / Access Point**

- WiFi 4
- Rail DIN
- Interface : RS232
- 2 x RJ45
- Passive PoE
- Full aluminum housing

### SECURE AND EASY TO USE

Security risk tests are performed constantly on all Teltonika Networks devices and all products are being periodically updated to eliminate any breaches in order to assure highest level of security.

Teltonika Networks devices are highly professional however they are very easy to use. Ability to offer products which do not require any special training is one of our strengths.

### RMS

The **Remote Management System (RMS)** by Teltonika Networks allows you to be in control of your connected solution and consists of three main parts :

- **RMS Management** (full control on routers & gateways)
- **RMS Connect** (control other smart devices without Public IP)
- **RMS API** (take from RMS and directly into any IoT platform)



## MILESIGHT Industrial Cellular Routers



### INDUSTRIAL CELLULAR COMMUNICATION ROUTERS

Milesight industrial cellular routers deliver **high-performance connectivity, purpose-built** for a wide range of **M2M** and **IoT applications** across demanding environments. Cost-effective with embedded intelligent features, they have fast Ethernet ports (with PoE) that provide users with uninterrupted Internet access.



**UR75 / 5G/4G-LTE/3G**

- Failback (ethernet, cellular and WiFi)
- 5 x Gigabit Ethernet switch
- 4 x PoE on LAN ports (optional)
- WiFi (GPS optional)
- 1 x RS232 / 1 x RS485 (+2 in option)
- 4 x SMA / 2 x Mini SIM

**UR35 / 4G-LTE/3G**

- Failback (ethernet, cellular and WiFi)
- Compact and rugged design
- 4 x PoE on LAN ports optional
- WiFi and GPS optional
- 1 x RS232 / 1 x RS485 (+1 in option)
- 2 x SMA / 2 x Mini SIM

**UR32 / 4G-LTE/3G CAT4**

- Failback (ethernet, cellular and WiFi)
- Compact and rugged design
- 2 x PoE on LAN ports optional
- WiFi, GPS, and RS485 are optional
- 2 x SMA / 2 x Mini SIM / 1 x RS232

**UC300 / LoRaWAN or 4G-LT**

- Failback (ethernet and cellular)
- Compact and rugged design
- Support for DI/DO/AI/PT100 interfaces
- 1 x RS232 / 1 x RS485
- 1 x SMA / 1 x Mini SIM

### POWERFUL SOFTWARE SUITES



**MilesightVPN**  
Remote access solution



**DeviceHub**  
Remote management



Smart Automation



Smart Machines



Smart Parking



Secure ATM

# OPTION CloudGate



## CONNECTING THINGS TO THE CLOUD

The CloudGate IoT/M2M Gateway provides competitively priced LAN to 2G,3G and LTE WWAN routing and GPS functionality. The CloudGate gateway is simple to configure locally or remotely from a PC, tablet or SmartPhone.

### RELIABLE AND SECURE

CloudGate is able to **automatically resolves common problems** associated with wireless M2M connectivity.

Built in software and hardware watchdogs continuously monitor each component of the product and the product's connectivity to home servers.

All software and configuration images are **protected with digital signatures** and have dual rollback images that allow the product to revert to previous working settings if an issue is detected.

### FLEXIBLE AND COST EFFECTIVE TO INTEGRATE AND DEPLOY

CloudGate provides flexibility that allows customers and system integrators to tailor the product to their solution.



CloudGate incorporates two hardware units expansion that allow it to be enhanced with additional radio and/or wired interfaces.



The expansion cards are simple and quick to install, allowing the field upgrade of the device when new functionality is required.

## SRAS

SARS offers a complete data security solution and removes most of the restrictions imposed by existing VPN solutions. It **enables secure connection to the enterprise platform, or cloud**, using advanced, dedicated VPN technologies.



ARS allows you to securely connect to the corporate platform or cloud using virtual private network (VPN) technologies.

This allows system administrators and mobile employees to securely access connected machines and objects even from locations that do not have secure network connections.

## ADVANTAGES

- Simple, value priced LTE WWAN M2M IP connectivity
- Automatic connection monitoring and error recovery
- Secure, redundant firmware and configuration images
- Unique software and hardware configuration flexibility
- Automatic provisioning of custom middleware

# CloudGate

## GATEWAY



### ETHERNET



### LTE WW



### LTE HELIUM



### MINI



### MICRO



### NANO



## EXPANSION CARDS

### FRONT SLOT

INDUSTRIAL Serial (RS232/RS485)



SMART METERING (1X6P CONNECTOR)



INDUSTRIAL Serial (RS232/RS485)



BLUETOOTH Low Energy (nRF52)



### BACK SLOT

LoRaWAN™ 868 + 9XX MH



WLAN card client & access point



### EXPAND THE FUNCTIONALITY OF CLOUDGATE

- Reduce stocking and deployment costs
- Unique software and hardware configuration
- As simple or full featured as you need it to be
- Configure CloudGate provisioning server
- Customized middleware installed
- Device is ready to connect to the cloud

For more information on Cloudgate products, please visit our site [giga-concept.fr](http://giga-concept.fr)

# CloudGate SPECIFICATIONS

MODEL	ETHERNET	ETHERNET MINI	LTE WW	MINI	MICRO	NANO
LTE	N/A	N/A	CAT 4 20 bands	CAT 4 20 bands	CAT 4 20 bands	CAT M/NB-IoT 20 bandsX
3G HSPA+	N/A	N/A	Yes 7 bands	Yes 7 bands	Yes 7 bands	No
2G	N/A	N/A	Yes 4 bands	No	No	"Yes 4 bands"
SIM holder	N/A	N/A	1 Micro SIM	1 Micro SIM	1 Micro SIM	1 Micro SIM
GNSS	No	No	Yes	Yes	Yes	See CloudGate nano w/ GPS (on demand)
LoRa	Optional card 868/915MHz forwarder or server (CG2132-12193)	Optional card 868/915MHz forwarder or server (CG2132-12193)	Optional card 868/915MHz forwarder or server (CG2132-12193)	Optional card 868/915MHz forwarder or server (CG2132-12193)	<b>The Cloudgate Micro also exists in Native LoRaWAN™</b>	<b>The Cloudgate Nano also exists in Native LoRaWAN™</b>
Ethernet	1 LAN/WAN	1 LAN/WAN	1 LAN + 1 LAN/WAN	1 LAN + 1 LAN/WAN	1 LAN + 1 LAN/WAN	1 LAN/WAN
Expansion card slots	2	1	2	1	0	0
USB	Optional cards	No	Optional cards	No	No	No
Serial Port	Optional cards	RS232 or RS485 Half and Full Duplex	Optional cards	RS232 or RS485 Half and Full Duplex	No	RS232 or RS485 Half and Full Duplex
Other Ports	Optional cards	CAN, I2C	Optional cards	CAN, I2C	No	Mbus
I/O	Optional cards	3	Optional cards	3	0	0
Ignition Sense	Yes	Yes	Yes	Yes	Yes	Yes
VPN	Yes	Yes	Yes	Yes	Yes	Yes
Max. # VPN Tunnels	1	1	1	1	1	1
Operating Temperature	-30° to +70° C	-30° to +70° C	-30° to +70° C	-30° to +70° C	-30° to +70° C	-30° to +70° C
Class 1 Div 2 Cert.	No	No	Optional	No	No	No
Power Range	9 to 33 VDC	9 to 33 VDC	9 to 33 VDC	9 to 33 VDC	9 to 33 VDC	9 to 33 VDC
Battery Backup	No	No	Optional card 900mAh	Optional card 900mAh	Optional card 900mAh	Optional card 900mAh
Dimensions	4.5" × 4.1" × 1.8"	4.5" × 4.1" × 1.8"	4.5" × 4.1" × 1.8"	4.5" × 4.1" × 1.8"	4" × 3.8" × 1.1"	4" × 3.8" × 1.1"



# IOT WIZZARD

## GATEWAY SOFTWARE SOLUTION

- SIMPLIFIES THE CONNECTION OF IOT OBJECTS
- FACILITATES THE CONVERSION OF PROTOCOLS
- AUTOMATES CONNECTION TO THE CLOUD / BMS



## ALL LORAWAN™ SENSORS ARE SUPPORTED: OVER 40 MANUFACTURERS SUPPORTED

The IoT Wizzard assistant offers a unique set of automations to facilitate IoT with the CloudGate.

Creating a professional IoT and IIoT network and scenarios has never been this easy. It is fast and does not even require any programming knowledge.

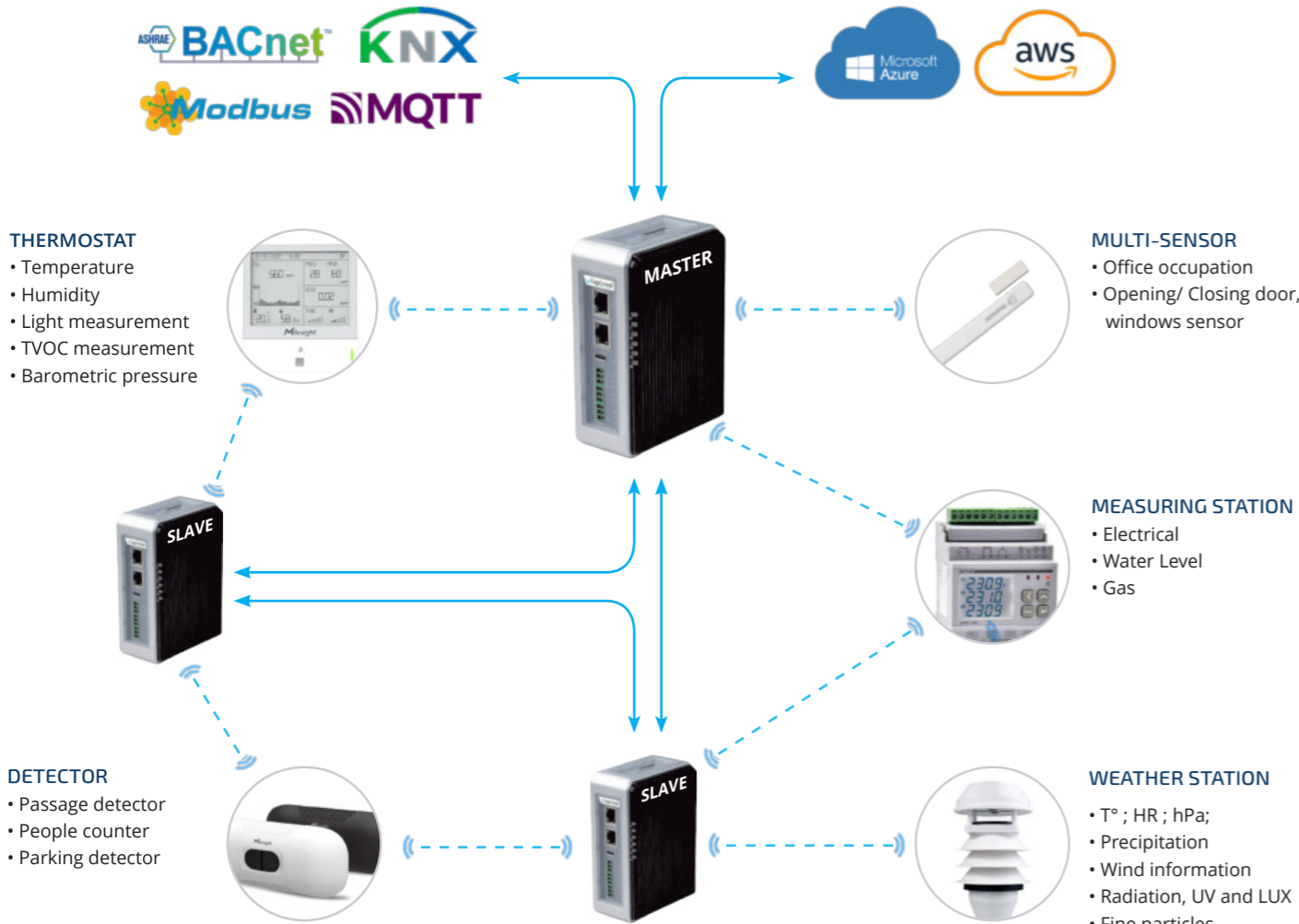
## THE 4 UNIQUE STRENGTHS OF THE IOT WIZZARD

- 1** Assisted pairing and configuration of LoRaWAN™ sensors
- 2** Connection of Modbus, BACnet and other devices: simplified
- 3** LoRa® data transfer to BACnet and Modbus objects: simplified
- 4** Output, locally and/or to the cloud: simplified and simultaneous

More on IoT Wizzard



# OPTIMAGATE Intelligent signal and protocol data conversion



As part of connecting to numerous sensors, the OPTIMAGATE gateway can operate in both as a **MASTER** and a **SLAVE**.

A gateway configured as a **MASTER** is installed near the existing system to decode LoRaWAN frames into wired protocols such as MODBUS, BACNET, MQTT, HTTP, etc.

Sensors are provisioned in this **MASTER** gateway; pairing is simple and fast thanks to the integrated software (IoT Wizard). For example, provisioning 1,000 sensors takes only a few minute.

Once this step is completed, **SLAVE** gateways are installed to act as LoRaWAN receivers and extend the LoRa network's capabilities,

These slave gateways continuously listen to the nearest sensors and transmit data to the **MASTER** gateway while also communicating with each other.

This method allows a sensor to be detected by multiple gateways, providing network resilience, the timeline visualization is in real time and informs the user about all connections.

# OPTIMAGATE

## IOT/4G PROFESSIONAL GATEWAY

Robust and reliable gateway ideal for smart building management

LoRaWAN

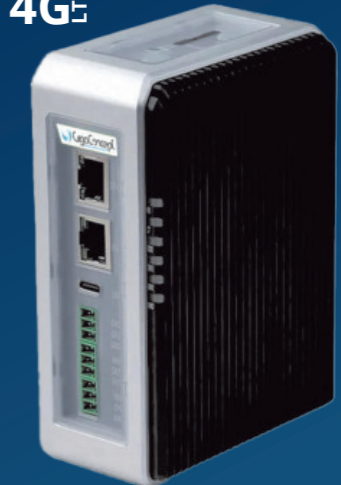


Powered by a Raspberry Pi CM4 with AI, the OptimaGate IloT gateway supports LoRaWAN™, Ethernet, Wi-Fi, BLE, Zigbee, and includes GPS, UPS, TPM 2.0, PoE, and SSD modules.

**OptimaGate it features :**

- 3 x isolated RS-485 ports, 2 x Ethernet
- 1 x SIM card slot
- 1 x M.2 slot
- 1 x HDMI 2.0 port
- Pre-installed easy-to-use configuration software

4G



Powered by a Raspberry Pi CM4 with AI, the OptimaGate-4G IloT gateway supports 4G-LTE, LoRa®, LAN, Wi-Fi, BLE, and Zigbee, with integrated GPS, UPS, TPM 2.0, PoE, and modules.

**OptimaGate-4G, it features :**

- 3 x isolated RS-485 ports, 2 x Ethernet
- 1 x SIM card slot
- 1 x M.2 slot
- 1 x HDMI 2.0 port
- Pre-installed easy-to-use configuration software

For Automation & IoT System



Communication Protocols



Cloud Solutions



Computer Vision



## SIM CARD Semtech

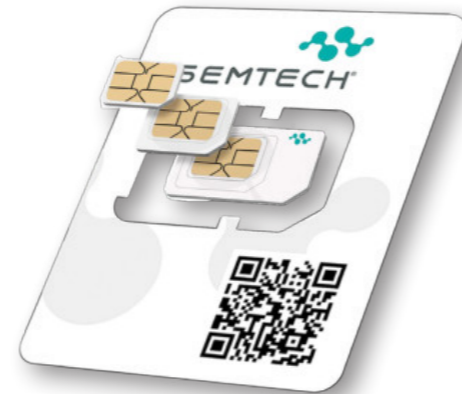


### SMART SIM CARD with eSIM/eUICC SUPPORT

The Semtech Smart SIM and Connectivity Service provides robust, multi-operator cellular coverage with optimized data performance and built-in redundancy to ensure continuous connectivity. Whether your deployment is global, regional, or local, this service is engineered to maintain high availability and service quality even in the event of network outages.

Semtech eUICC compatible SIM cards are available in all form factors and grades with standard 2FF, 3FF and 4FF cards are available in consumer and industrial grades for devices requiring traditional plug-in SIM cards yet desire the flexibility of eSIM remote provisioning.

For added security and ruggedness, solder down eUICC compatible SIMs are available in MFF2 and WLCSF form factors in both industrial and automotive grade.



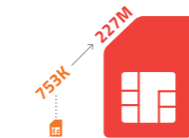
Purpose built for mission-critical IoT applications, it supports both mobile and fixed deployments across diverse industries, including transportation, energy, healthcare, and industrial automation.

It supports remote profile management through eSIM technology, offering maximum flexibility for international deployments, its extended capabilities, including global multi-network connectivity, integration with secure mobile payment services, and support for device-to-device communication.

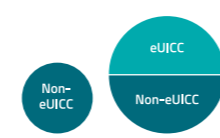
When integrated with the **AirVantage®**, it offers a comprehensive solution that simplifies the deployment, management, and scaling of global IoT implementations.

This combination enables efficient provisioning of connectivity profiles, continuous real-time monitoring of device performance and network status, and comprehensive lifecycle management, all to improve efficiency

77% CAGR for eUICC annual IoT SIM additions



50% of all IoT SIMs will support eUICC



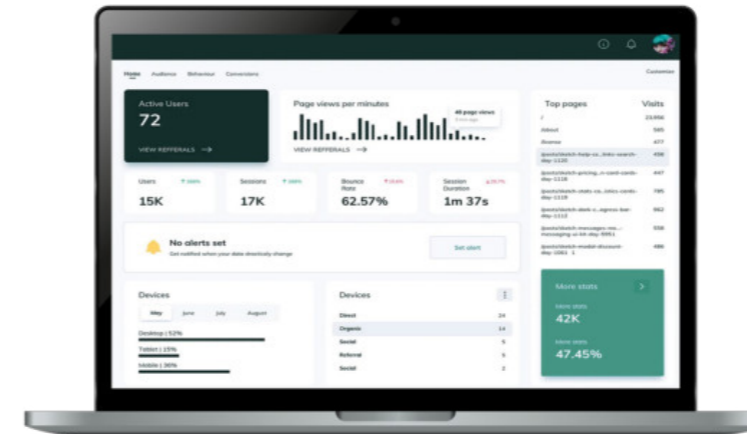
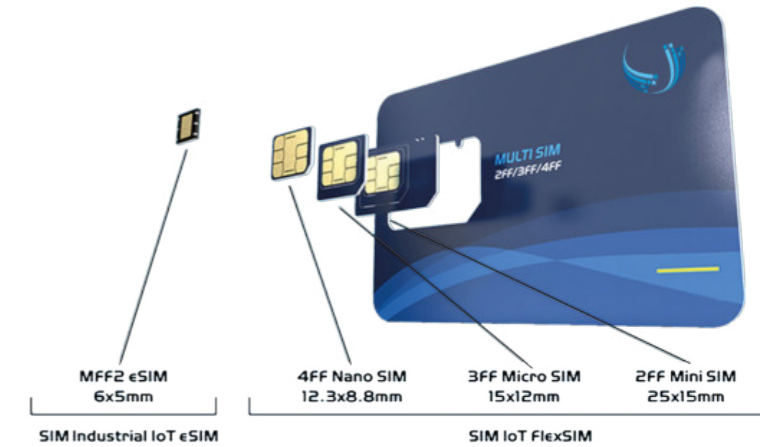
## SIM CARD GIGA-CONCEPT

### GLOBAL CONNECTIVITY

GigaConcept offers **industrial-grade** SIM cards which are specifically designed to meet the demands of **IoT applications**. Whether is for deploying smart meters, connected vehicles, industrial sensors, or remote monitoring systems, GigaConcept SIMs ensure reliable, secure, and scalable connectivity.

It includes a **user-friendly management interface**, a module with integrated SIM for streamlined deployment, and compatibility with both classic and smart SIM formats.

It supports connectivity across France, the EU, and worldwide zones, and is available with flexible subscription or prepaid options to suit any business model.



Their seamless integration into any IoT ecosystem ensures minimal downtime and maximum efficiency, whether in urban infrastructure or remote industrial environments.

GigaConcept also provides comprehensive support and lifecycle management, helping businesses scale their IoT solutions with confidence.

The M2M SIM card that automatically connects to the strongest available network which then transmits data to the IoT platform enabling seamless interaction and control by the end user

From initial deployment to long-term operation, our SIMs are backed by expert guidance and real-time monitoring tools, ensuring your connected devices stay online and secure anywhere in the world.



### Feature and Benefits

- SIM card with eUICC compatible cards in all form factor
- Multiple-Operator Connectivity means best in class coverage
- Smart, resilient SIM means superior data service quality
- Operator Independence unlocks new IoT use cases
- Remote SIM Provisioning
- Update or switch operator profiles over-the-air
- Centralized Management Platform

### eSIM solution for long-lifespan remote machines

- SIM card with eUICC compatible cards in all form factors
- Update subscriptions remotely as more competitive rates
- Better coverage options become available
- Change rate plans or operators as your IoT use case
- Enhanced Global Coverage
- Scalability for Mass Deployment
- Lifecycle Management & Diagnostics

### Features and Benefits

- Easy management interface
- Module + integrated SIM
- Classic or smart SIM
- France, EU, and worldwide zones
- High Security Standards
- Low Power Consumption
- Flexible Payment Options
- Built for Tough Conditions
- Global connectivity
- Plug-and-Play IoT Integration
- Ruggedized for Industrial Use
- Global Multi-Network Support



## BACKUP POWER SUPPLIES

GUARANTEES APPLICATION PERFORMANCE EVEN WITHOUT ACTIVE POWER SUPPLY

### OS36-Plus

Backup power for routers and gateways



#### Key features :

- Inverter 12v/15v/19v/24v
- Real-time triggering and regulation
- Protects against overvoltage and current fluctuations
- Interface with dry contact
- 3 LED status indicators
- 18650 Lithium 5C battery
- Intelligent battery management (BMS)

Ensures an uninterrupted power supply for connected electronic devices in case of power failure or fluctuation.

### GC-BATSEC-AIO

DIN Rail power supply Kit + battery backup for routers, modems, gateways and more.



#### Key features :

- Voltage input 230Vac
- Voltage output: 12 or 24Vdc
- Output protection : SCP / OVP / OLP
- High efficiency, long life and high reliability
- Extended ambient operating temperature: -10°C to -50°C
- Long-life 105°C electrolytic capacitors
- Atmospheric convection cooling

Available in 12 or 24 volts, and in 36W, 48W and 60W respectively, they are equipped with a double terminal block.

## LORAWAN™ AUDIT SUITCASE



VALISE-AUDIT-LORA3

#### KEY FEATURES

- CloudGate IoT/M2M gateway
- LoRa® network coverage tester
- LoRa® 868 fibreglass antenna
- Battery : 12V
- Mobile application available
- Dimensions : 33,5 x 30 x 17 cm
- Weight : 3.50 Kg

Pre-wired, pre-configured and self-sufficient in energy thanks to its integrated battery, our LoRaWAN™ Audit suitcase enables coverage tests of a LoRa network before deployment of an IoT ecosystem.



#### MOBILE APPLICATION

Test and analyze LoRaWAN™ coverage using Testeur LoRaWAN and its mobile application.



#### WHAT'S IN THE BOX ?

##### 1. CloudGate



cf. pag 30

##### 2. LoRaWAN™ network tester



##### 3. 868 MHz outdoor antenna



cf. pag 12

## LORAWAN™ EDUCATIONAL SUITCASE



EDUCATIONAL\_CASE1

#### KEY FEATURES

- 1x LoRaWAN™ Gateway + Wizzard IoT
- 1x LoRaWAN™ door sensor, RGB LED
- 1x Modbus temperature/humidity sensor
- 1x 868 MHz antenna
- 46 x 33 x 15 cm / 3.80 Kg

Provides a **simplified and intuitive** way to learn about LoRaWAN™, Modbus and other industrial protocols. Pre-wired and pre-configured, our case includes a professional multi-protocol IoT gateway.

Our LoRaWAN™ gateway is equipped with the Wizzard IoT software (see page 30) that allows pairing and configuration of LoRaWAN™ sensors in just a few clicks.

#### WHAT'S IN THE BOX ?

##### 1. CloudGate Nano



cf. pag 31

##### 2. T°/Humidity Sensor



##### 3. Opening/Closing Sensor



##### 4. Light Indicator



cf. pag 51



# ENERGY MEASURES



# ENERGY MEASURES



GC-MAP4-34RJ-LORA

## MULTI-CIRCUIT ELECTRICAL MEASURING STATION



### KEY FEATURES

- Programmable Modbus RTU communication
- Instantaneous measurements / Data logging
- Digital inputs and outputs
- Active energy pulse transmitter
- Request integration mode
- DIN rail mounting (case width: 4 modules)

The MAP4-34RJ modular measurement system provides comprehensive and accurate measurement of 12 single-phase or 4 three-phase circuits, with or without neutral.

Measurements are performed on the main electrical parameters for detailed circuit analysis.



GC-IN024

## POWER CONSUMPTION MONITORING



### KEY FEATURES

- Alarms on threshold detection
- Clocked sensor acquisition
- industrial/environmental measurement
- IP66 grommets for external sensors
- Timed spontaneous transmissions
- Time-stamped event logging (+3000)

ESG-Logger is a battery powered product dedicated to industrial and environmental measurement.

Its NRJ version adapts to your environment to allow you to identify your large consumption items, to do predictive maintenance but also to monitor your electricity consumption.



GC-MICROARM-A13

## INDUSTRIAL AUTOMATION



### KEY FEATURES

- LoRa / Sigfox / RS232 / RS485 / Bluetooth
- 7 input and 5 output
- Power supply : 12 - 24 VDC
- 512 Ko Flash / 48 ko SRAM
- IP20 certification
- Dimensions : 98 x 36 x 57

Designed for the control of automated systems or data acquisition in highly co strained areas. The GC-MicroARM-A13 has a total and complete development and supervision for a be environment.

It is programmable using the free MicroLADDER software.



GC-NK006

## PULSE SENS'O 3 ENTRIES



### KEY FEATURES

- 3 configurables input
- Up to 12 years of autonomy
- Outdoor housing IP55/IP68
- Available in ATEX (GC-NK033)
- Remote reading of metering data from water, gas, electricity or energy meters.

Transforms existing meters into connected meters : its readings are sent via a LoRaWAN™ network, public or private.

Three meters can be simultaneously supported by the PULSE SENS'O, allowing a significant reduction in implementation and deployment costs.



GC-NK007

## FLASH'O REMOTE PROBE



### KEY FEATURES

- NFC configuration
- On / Off Magnetic switch
- Radio frequency metering and remote reading
- 12 years battery life (data compression mode)
- Infrared optical sensor
- IP55 protection

Count and remotely read the light pulses of any electronic meter: water, gas, electricity, energy.

It is a simple and economical solution transforming any electronic meter emitting light pulses into a connected meter, communicating on a LoRaWAN™ network, public or private.



GC-NK004

## IN'O STATUS REPORT



### KEY FEATURES

- Supervision and remote control of industrial equipment
- 10 pulse inputs
- 4 opto-isolated outputs
- Remote external antenna
- Up to 10 years battery life

The GC-NK004 transforms any type of digital sensor into a LoRaWAN™ Class A or C compatible sensor.

It allows remote supervision/monitoring and remote control of industrial equipment (valves, pumps, motors, generators, etc.) by transmitting the status of its inputs/ outputs (10/4) to a management system.



# ENERGY MEASURES

## 5% ACCURACY SECTION

### CURRENT SENSOR



HARVY2

#### KEY FEATURES

- 4 inputs with polarised connectors
- Three-phase current metering
- Intelligent event filter
- Data transmission via LoRaWAN
- Self-sufficient and maintenance-free

Harvy2 is an IoT sensor that measures electrical currents and energy flows without the need for a battery or external power supply. Self-powered, it draws energy from the magnetic field generated by the electrical conductor.

### SMART CURRENT TRANSFORMER



CT101

#### KEY FEATURES

- Superior accuracy with a frequency up to 3.3 kHz
- Real-time calculation of accumulated amp-hours
- Threshold and current failure alerts
- Reports effective and accumulated current
- Self-powered, without batteries or external cables

LoRaWAN enabled device with an innovative, non-intrusive quick installation. Suitable for a single wire, it accurately estimates energy consumption with a sampling rate up to 3.3kHz.

## < 1% ACCURACY SECTION

### 6 THREE-PHASE OUTLETS (18 CLAMPS)



GC-PEG6-ETH-LORA



#### KEY FEATURES

- Measures : 70 / 200 / 500 / 1000 / 2500A
- 1% or 0.5% degree of accuracy
- Data access : LoRa or Modbus TCP
- A LoRaWAN™ network, private or operated
- An Ethernet connection (requires a Gateway)
- 3G or 4G (with a Gateway and a 3G/4G router)

Facilitates electrical metering. Brings major innovations to energy metering equipment. Up to six 3 phase circuits in a switchboard or 18 single phase circuits or any combination of both. Can combine three-phase and single-phase feeders.

### SENSOR ONE 3 PHASE / 3 SINGLE PHASE



GC-SPOONY 1.5



#### KEY FEATURES

- 1% degree of accuracy
- Native interface with Open Graph
- Power supply range: 80-270 VAC, 50-60Hz, 0.2A
- Remote reading for single and 3 phase installations

The SPOONY integrates single-phase/three-phase electrical measurement capabilities and relay control actions: switching and automation by programming energy management processes.

# NETWORK CELL ANALYZER

It allows you to query the relay stations of major telecom operators (Orange, Bouygues, SFR) and provide accurate, real-time results on their radio performance.

To deliver accurate values that take into account environmental constraints at the time of testing (partitions, floors, walls, other disruptive radio waves), the NCA-IoT v2 does not consult or rely on any existing online database.

Thanks to its dedicated mobile application (Network Cell Analyzer, available for iOS and Android), relay antennas are scanned, identified, and analyzed in real time from the tested area (indoors and outdoors), unlike other applications of the same type.

Its built-in rechargeable battery (7000 mAh) provides a battery life of 5 to 7 hours, depending on use.



## Kit Contents



- Network cell analyzer
- 5V 2A charger
- 2G/3G/4G antenna
- SIM card
- RG174 SMA-Male / N-female
- Ethernet cable

**LoRaWAN®**  
VERSION AVAILABLE





# COMBINED MEASURES



# COMBINED MEASURES



ERS-CO2

## 5-IN-1 SENSOR



### KEY FEATURES

- T°, humidity, CO2, Luminosity / mouvement
- 4 environmental measurements
- Accuracy of ±0.5°C and ±2% RH
- Presence sensor
- Battery life up to 10 years
- Replaceable batteries (not included)

Equipped with NFC (Near Field Communication) technology, it is configurable via Android phone/tablet.

The dedicated mobile app (Sensor Settings) allows you to activate and change the sampling rate, data rate, encryption keys, trigger thresholds, and more.



GC-ELI001

## AURA CO2 SENSOR



### KEY FEATURES

- Pressure & humidity monitoring
- LoRaWAN™ & BLE communication
- Real-time CO2, temperature
- Auto-calibrated
- IOS/Android application
- Battery operated (5-year autonomy)

The CO2 Aura is self-calibrating, certified drift-free, and can be used for over 15 years without any recalibration.

Thanks to its integrated display, each value can be displayed and monitored in real time. When the alarm is triggered, it can be disabled using the button on the front panel.



GC-URS007

## TEMPERATURE AND HUMIDITY SENSOR



### KEY FEATURES

- IP67 Waterproof
- NFC for Configuring
- 0% to 100% RH
- -30°C to 70°C
- 5/10 Years Battery Life
- LoRaWAN™ Wireless

Adopts Sensirion industrial-grade digital temperature & humidity sensor, providing ±0.3°C high accuracy of temperature and ±3% RH of humidity.

Compatible with industry-standard LoRaWAN™ gateways with a range of up to 15 km in rural areas and 2 km in urban areas.



GC-URS009

## 3-IN-1 SENSOR : IP30/CO2 TEMP/HUMIDITY



### KEY FEATURES

- Real-time data display / NFC configuration
- T° measurement : -20°C to +70°C
- Relative humidity : 0% to 100% RH
- CO2 measurement range : 400 to 5000 ppm
- Battery life : AM103 : 3 years
- 2 replaceable batteries : 2700 mAh

The Milesight AM103 IoT sensor features three high-precision sensors for real-time indoor temperature, humidity and CO2 measurements.

Measured data is transmitted over LoRaWAN™ and is simultaneously displayed on the screen in real time.



GC-URS030

## 9-IN-1 INDOOR ENVIRONMENT SENSOR



### KEY FEATURES

- OTAA/ABP Class C mode
- Temperature and Humidity
- Mouvement detection / light measurement
- TVOC measurement
- Barometric pressure
- Supports batteries or DC power

The Milesight AM319 allows connected and complete monitoring of indoor air quality in any room or space :

Temperature, Humidity, CO2, VOC, PM2.5 and PM10, HCHO or O3, barometric pressure, plus two sensors: Presence and Brightness.



GC-HUN001

## WEATHER STATION /12 MEASUREMENTS



### KEY FEATURES

- Multiple connectivity options : LoraWAN ; 4G-LTE; Wi-Fi; Ethernet / RS232 / RS485
- 12 high accuracy measurements :
  - › T° ; HR ; hPa; Precipitation (Start/Stop)
  - › Wind speed and direction, altitude
  - › Radiation, UV and LUX
  - › Fine particles: PM2.5 and PM10

The GC-HUN001 provides up to 12 weather measurements: precipitation, wind speed and direction, atmospheric pressure, fine particles, temperature, humidity, and more. Its ability to measure solar irradiance, UV, and radiation makes it ideal for a wide range of use cases. Its low power consumption (only 1.7W) allows it to be powered by a solar panel or battery.



## LEVELS / FILLING



## COUNTING / PRESENCE



GC-DF703

### IP68 ULTRASONIC LEVEL AND FILL SENSOR



#### KEY FEATURES

- Allows for remote level monitoring
- Filling level measurement (solid or liquid)
- Detection up to 4 meters
- Battery life up to 8 years
- Available in NB-IoT (and Sigfox) version
- GPS option available

Transmits a precise measurement of the level of filling of waste bins and allows real-time monitoring.

Its detection range of up to 4 metres also allows it to be used in sewers (to prevent overflows), or in car parks to detect the presence or absence of vehicles.



ACW-LVL

### LEVEL MEASUREMENT SENSOR



#### KEY FEATURES

- Measurement range : 20 cm to 5 m
- Accuracy : 1% of measurement
- 3+ years battery with 24 measurements/day
- Configuration via USB, downlink or mobile app
- Data redundancy and data logging modes
- Plug & Play

The ACW-LVL is designed for remote level monitoring of many types of containers, such as rubbish bins, agricultural silos and liquid tanks.

It facilitates wireless distance reporting with its powerful ultrasonic sensor measurements.



XMI-VS135

### PASSAGE DETECTOR, PEOPLE COUNTER



#### KEY FEATURES

- Bidirectional people counting
- Regional counting of individuals
- 100% anonymous detection
- Personnel detection
- Insightful group counting
- Ultra high accuracy of 99.8%

High-performance sensor enabling bidirectional counting of individuals (entry/exit) in a defined area (expandable by coupling up to 4 sensors) with intelligent detection of elements enabling a distinction to be made between types of individual while ensuring perfect protection of privacy (100% RGPD).



SNX-12L

### INFRARED PRESENCE DETECTOR 85°



#### KEY FEATURES

- LoRaWAN™ Class A
- Real-time detection notifications
- Temperature and battery level information
- OTAA configuration / AES128 data encryption
- Operates without electricity or internet
- Fully autonomous; battery life up to 5 years

PIR IoT sensor with a detection range of 12m x 12m.

Using its false alarm protection. It creates a large number of high density detection zones and able to differentiate a human from an animal (less than 40cm high), reducing the risk of false alarms.



ACW-DINDA

### ANALOGUE GATEWAY 4-20 MA | 0-10V



#### KEY FEATURES

- 1 analog input 4-20 mA | 0-10 V
- 2 ToR inputs : 30Vmax
- External power supply 10-30 Vdc
- Configuration via USB, downlink
- Smart Building / Smart City / Smart Industry
- Input 4-20 mA or 0-10 V / 2 ToR inputs

The readings are transmitted regularly on the Sigfox or LoRaWAN™ networks and its configuration is configurable from the ATIM suite tools.

Compatible with the computer and mobile versions of the IoT web platform.



GC-IN011

### DOOR OPENING/CLOSING SENSOR WITH ACCELEROMETER



#### KEY FEATURES

- Opening count with "door always open" alarm
- Detection by accelerometer or dry contact
- Periodic or event-triggered transmissions
- Management of detections by time slots
- Time-stamped event logging (+3,000)
- More than 5 years of battery life

ACS-Switch detects the opening and closing of doors, windows, garage doors, vaults or even cold rooms.

Can also be used in building management systems to provide security alerts or even to optimise actions such as maintenance. Batteries are replaceable.



GC-OPT(XXX)

## INFRARED BARRIER PRECISION

IP65 Android iOS LoRaWAN

### KEY FEATURES

- LoRaWAN™ Class A
- Available in 868 MHz and 915 MHz
- Real-time detection notifications
- Temperature and battery level information
- OTAA configuration / AES128 encryption
- Battery life up to 5 years

### GC-OPT005

- Range : 30 M
- Channels : 4

### GC-OPT006

- Range : 60 M
- Channel : 1

### GC-OPT007

- Range : 100 M
- Channels : 4

### Use case :

- Secure vineyards / Car parks
- Protected sites / public and private places
- Monitor agricultural sites / Secure sports facilities



GC-IN014

## INFRARED PRESENCE DETECTOR

IP44 IK07 LoRaWAN

### KEY FEATURES

- LoRaWAN™ Class A
- Infrared detection (PIR)
- LED signalements
- Periodic or event-driven transmissions
- Configurable parameters according to use case
- Battery life up to 5 years (replaceable battery)

Monitoring of accesses and premises by infrared detection (PIR) for better optimisation of on-call duty and security automatisms.

Counting of passages and feedback of room/office occupancy rates for a better organisation



GC-IN013

## ELECTRONIC SEAL

IP66 IK09 GPS NB-IoT LTE-M Bluetooth LoRaWAN

### KEY FEATURES

- Exist in NB-IoT / LTE-M and ATEX version
- Classe A Tri-Bands : 868 / 915 & 433MHz
- Cellular connection with GPS
- Detection of cable cut and short circuit,
- Detection of housing tampering,
- Motion detection, identification and location.

Enables real-time securing, tracking and monitoring of sensitive containers or accesses to be protected.

Enables near global indoor/outdoor connected monitoring, whether securing a fixed location (electrical cabinet, sensitive room, etc.) or a container in transit.

## CONNECTED WEIGHING PLATE

LoRaWAN



ESG-Logger-LC

### KEY FEATURES

- LoRaWAN Class A
- Periodic measurement and transmission
- Weight variation alert
- Accuracy: ±10g or ±50g
- OTA updates
- Replaceable battery

Operating without any cables, this LoRaWAN weighing plate is battery-powered and can therefore be set up very easily and quickly.

Whether for automated inventory management, temporary process status or product compliance control, weighing is one of the most recurring and important tasks within industries and businesses.



GC-SENSA(XXX)

## ULTRA-COMPACT MULTI-SENSOR

LoRaWAN

### KEY FEATURES

- LoRaWAN™ up to 10 km
- Temperature and magnetic contact sensor
- Small, discreet and ultra thin (3mm)
- 10 year battery life, no maintenance required
- Adhesive backing for quick and easy mounting
- Compatible with the Sensative +Switch

### GC-SENSA003

Temperature, humidity and LUX sensor.

### GC-SENSA008

Temperature and water leakage sensor.

### GC-SENSA005

Office occupation sensor.

### GC-SENSA004

Opening/ Closing door, windows sensor.



GC-IN016

## STAND-ALONE SECURITY ALARM

IP66 IK08 LoRaWAN

### KEY FEATURES

- Quick and easy installation
- Stand-alone alarm for secure access
- Alarm for remote LoRaWAN™ sensors
- Siren up to 100 dB with tone adjustment
- Door opening detection/counting
- Time-stamped event logging (+3,000)

The ACS-Switch-Buzz® is a connected object equipped with a smart sensor (tilt, motion, rotation) and a 3-level power alarm (configurable, up to 100dB).

A two-colour LED on the casing makes it easy to install the product and to know its status. Its battery can go up to 5 years.



# OTHERS



# LIGHT INDICATOR



INTERNET OF THINGS

INTERNET OF THINGS



GC-NK013

## MODBUS RS485 TO LORAWAN™ CONVERTER



### KEY FEATURES

- Allows data collection from ModBus devices
- LoRaWAN™ / Class A or C
- 10 years of battery life
- 10 different Modbus profiles

Manages a set of ModBus slaves connected on a wired bus (RTU mode) and has an interface allowing it to communicate with a remote server in LoRaWAN™, public or private.



ABW00007

## CONNECTED BADGE



### KEY FEATURES

- GPS, LP-GPS, LoRaWAN™, WiFi, Sniffer and BLE
- Multi-mode tracking: employees, workers...etc
- Up to 1 year and 3 months standby time
- Compact : 90 × 65 × 11mm, 80g

Portable multi-mode tracker in ID card format with on-board sensors enabling accurate and continuous geolocation in outdoor and indoor environments.



GC-SKI011

## CONNECTED TIME CLOCK - 4 BUTTONS



### KEY FEATURES

- Up to 500 passages per hour
- Waterproof (IP65)
- Up to 3 years battery life
- 2 to 4 buttons

Clock S is a wireless mobile RFID time clock operating on LoRaWAN™ and Sigfox networks. Offering a battery life of 3 years and doing away with Wi-Fi, Ethernet and SIM card connections, this 868MHz time clock can be used both indoors and outdoors thanks to its waterproof case.



GC-SKI002

## CONNECTED SURVEY SENSOR - 5 BUTTONS



### KEY FEATURES

- Customisable connected buttons
- Up to 7 years of battery life
- Signal for different events, capable of time-stamping interventions

Allows you to obtain opinions on the quality of an equipment or a service, to be alerted in case of equipment malfunction. Collect answers to all types of surveys by offering 5 possible choices of answers.



GC-MD001/B

## PROGRAMMABLE CONNECTED LIGHT INDICATOR



### KEY FEATURES

- Visual control of configured thresholds on IoT sensors
- Works with WiFi and LoRaWAN™
- Compatible with all IoT sensors on the market
- 12 programmable RGB LEDs
- Simplified customization, numerous APIs available
- Dimensions : Ø 68mm x h 35 mm

### TWO MODES OF USE

1. In WiFi via numerous APIs, notably interfaceable with home automation boxes
2. In LoRaWAN™ for a larger coverage area.



GC-IN021

## STAND-ALONE INDICATOR LIGHT



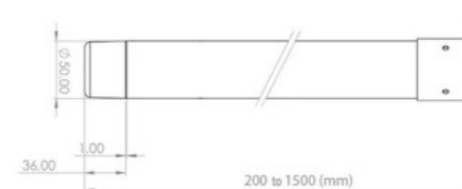
### KEY FEATURES

- LoRaWAN™ Class A / Signaling for all uses
- Customizable LED flashing and colours
- Time-stamped event logging (+3000)
- Report available/occupied parking spaces
- Signaling the health status of a machine
- Can be coupled with ACS-Report-Buzz
- Battery life up to 5 years
- Replaceable battery

This professional LoRaWAN™ light indicator can be used in various environment is adaptable to all signage needs.

Autonomous, wireless, and equipped with a battery that provides up to 5 years of operation, this professional LoRaWAN™ indicator light is adaptable to all signaling needs.

The LED lighting, flashing, and color (RGB) are fully configurable to suit all use cases. The color and length of the tube (from 20cm to 1.5m) are optionally customizable





# GEOLOCATION & TRACKING



## Compact and high performance vehicle trackers

Queclink's asset tracking solutions are designed to support a diverse array of applications that require high-precision, real-time location reporting and data communication. These devices are equipped with advanced GNSS modules and support multi-band LTE-M, NB-IoT, 3G, and 2G connectivity to ensure reliable global coverage and uninterrupted communication across regions and networks.

These trackers are optimized for deployment in various use cases, such as private investigations, package deliveries, temporary tracking of vehicles, long distance transportation, air cargo tracking, container tracking, endurance racing and a variety of other consumer applications.

Additionally, these devices often integrate with motion sensors, temperature monitoring, geofencing capabilities, and advanced power management features, enabling long-term autonomous operations even in power-constrained environments. With flexible reporting intervals, remote configuration, and over-the-air (OTA) firmware updates, these devices deliver both operational efficiency and scalability.



GL520MG

- Global LTE Cat M1/NB2
- 2G fallback using antenna solution
- Up to 7-year standby time
- Waterproof, compliant to IP67
- Rapid and flexible installation
- Ideal for asset monitoring and lot management



GV53MG

- Global LTE Cat M1/NB2
- 2G fallback using antenna solution
- Compact size for covert installation
- Ideal for a wide range of vehicle tracking applications
- Easy installation using an in-line connector

### Key Features

- Compact and Durable Design
- Long Battery Life & Low Maintenance
- Versatile Network Support
- Tamper Detection & Anti-Theft
- Flexible Deployment
- Customizable Reporting

### Benefits

- Real-Time Visibility
- Theft Prevention & Recovery
- Optimized Logistics & Supply Chain Efficiency
- Reduced Operational Costs
- Reliable in Harsh Environments
- Versatile Network Support



# GEOLOCATION & TRACKING

## 4G LTE CAT1 TRACKER WITH 2G FOLD



### KEY FEATURES

- LTE CAT.1 connectivities with 2G fold
- GNSS positioning: GPS/Beidou/Glonass/Galileo
- Bluetooth 5.2
- Driving behavior monitoring
- Compact and waterproof (IP67)

Continuously powered by the vehicle battery, its compact design and its IP67 seal allow easy installation on different types of vehicles. Equipped with a 6-axis sensor and offers a sampling frequency of up to 1600 Hz.



GB100CG

## GNSS TRACKER WITH SOLAR ENERGY



### KEY FEATURES

- LTE CAT 1 with 3G and 2G fold
- GNSS: GPS, Beidou, Glonass Galileo, AGPS
- Solar load + 12000 mAh battery
- Up to 10 years of standby autonomy
- ATEX, IP67
- Support for Ble 5.0 and WiFi 7

Waterproof and autonomous in energy, the GL601CEU is a GNSS / LTE CAT 1 tracer compatible with ATEX with integrated solar panel. Equipped with a motion sensor, a light sensor for sabotage alerts, a temperature sensor and offers extensive features thanks to Bluetooth and Wi-Fi connectivity.



GL601CEU

## LORAWAN AND GPS/GNSS TRACKER



### KEY FEATURES

- Lora connectivity
- Positioning: GPS, Galileo, Glonass, Beidou
- Movement detection
- Integrated 3-axis accelerometer
- OTA Update Management
- Integrated 2400mAh battery

Ultra compact tracer capable of transmitting data in real time via the Lora® network. Equipped with a 3-axis accelerometer, the GL52RP alert in the event of movement, ensures a precise location via satellites. With a low consumption architecture it provides up to 1800 days of autonomy in energy



GL52RP

## 4G LTE CAT1 VEHICLE TRACER



### KEY FEATURES

- LTE CAT.1 connectivities with 2G fold
- GPS/GNSS positioning
- 1 digital input/output, 1 analog input
- Driving behavior monitoring
- Compact and waterproof (IP67)

A 4G-LTE CAT 1 compatible telematic device that meets a wide range of applications such as surveillance and geographic monitoring, fleet logistics, etc. Compact and waterproof, its wide tension range (9 - 90V) makes it suitable for a wide variety of vehicles.



GV57CG





# GEOLOCATION & TRACKING



## Reliable and solar-powered asset tracking

TOPFLYtech offers a range of portable asset trackers designed to ensure efficient tracking and management of valuable assets. These trackers provide real-time location updates, giving users visibility and control over their assets while enhancing security.

Equipped with multiple connectivity options, these trackers support 4G-LTE, ensuring stable communication and data transmission across various locations. Their solar-powered models, such as **TLP2-SFB** and **SolarX 110**, harness solar energy for extended battery life, reducing maintenance needs and ensuring long-term operation.

Built with a compact and durable design, these trackers are made to withstand rugged environments, making them ideal for demanding industries that require reliable asset monitoring. Their versatility extends to multiple applications, including vehicle tracking, asset monitoring, and environmental sensing, catering to a wide range of operational needs.



### TLP2-SFB

- 4G-LTE network
- EGPRS 850 / 900 / 1800 / 1900 MHz
- GNSS: GPS, Glonass, Galileo, Beidou
- Real-time positioning and tracking
- 3-axis accelerometer
- Light sensor
- Waterproof, IP67 certified



### SOLARX110

- 4G-LTE network
- EGPRS 850 / 900 / 1800 / 1900 MHz
- GNSS: GPS, Glonass, Galileo, Beidou
- Real-time positioning and tracking
- 3-axis accelerometer
- Bluetooth 5.3 interface
- Waterproof, IP67 certified

## Key Features

- Supports Cat M1/NB-IoT/EGPRS
- Solar & Long-Life Battery Options
- Rugged & Waterproof Design
- Real-Time & Historical Tracking
- Tamper & Removal Alerts
- Flexible Mounting Options

## Benefits

- Enhanced Asset Security
- Reduced Operational Costs
- Improved Fleet Visibility
- Easy Deployment
- Reliable in Harsh Environments
- Customizable Reporting

# GEOLOCATION & TRACKING

GPS | RFT-TRACKER 7 V3



## KEY FEATURES

- Ultra-low-power design
- Motion management (accelerometer)
- LoRaWAN™ Class A connectivity
- Dimensions: 94 × 58 × 25 mm
- Temperature range: -20°C to +55°C
- Low Power => Battery up to 5 years
- Onboard battery: 7Ah

Compact, waterproof (IP65) and equipped with an accelerometer allowing it to detect the immobility of objects in order to activate the GPS and LoRa functions only when necessary, the RFT Tracker-16 is designed to reduce its power consumption as much as possible. It thus ensures uninterrupted monitoring over several years: from 1 to 5 years.

GPS | RFT-TRACKER 16 V3



## KEY FEATURES

- Very low power design
- Motion management (with accelerometer)
- LoRaWAN™ Class A connectivity
- Integrated accelerometer
- Mobility rate counter
- Onboard battery : 17Ah
- Battery up to 10 years

Equipped with an accelerometer, the compact RFT-Tracker 16 (v3) enables geolocation of all types of vehicles and objects by transmitting GPS positioning data to a LoRaWAN™ network. Its integrated accelerometer allows it to detect the immobility of objects. It activates the GPS and LoRa functions when necessary.

GPS/GPRS IP65 | ASSET LOGGER



## KEY FEATURES

- GPS/ GPRS / 2G with BT and MQTT / TLS 1.2
- Powered by the vehicle's +12V or +24V
- Internal accelerometer
- IP65 / 145 x 66 x 40 mm

Geolocates vehicles and measure their usage time, tracking of the vehicle fleet with hour meter index. Useful for tracking and monitoring of construction or agricultural machinery.



GC-RF001



GC-RF002



GC-RF003



## TABLETS Wall Mounted, Rugged and semi-rugged

### HIGH-PERFORMANCE ANDROID TABLETS INTEGRATING ITSELF IN ALL SOBRIETY

Developed to fit **perfectly into its built-in case**, this tablet will find its place in a wall for **home automation applications**, or in a headrest for embedded applications.

The **POE (Power Over Ethernet)**, mean that you don't need a power cable at all, as power is supplied via the Ethernet cable.

### THE BEST OF ANDROID FOR YOUR APPLICATIONS

With a powerful **ANDROID version 6.0 and above**, offering an excellent user experience. Install your favorite applications on your tablet, browse the Internet with ease or view your favorite **multimedia content**.

The **GC-VEG** model is an android based automation console. It is designed to be embedded into wall for seamless touch experience. It allows a **one touch control** platform for buildings and apartments. GC-VEG offers **flexibility and diverse customization** to the IOT industry.




#### WALL MOUNTED TABLET 7" DO-TABQ896S-7B

- Android 6.0
- 7 inch tablet, built-in
- POE power supply
- 8-Core ARM Cortex A7 CPU, 1.2GHz
- 2GB RAM
- 8GB Nand Flash
- WiFi, Ethernet, Bluetooth
- Ethernet, USB, UART, Jack, HDMI



#### WALL MOUNTED TABLET 10" DO-TABQ8919-9

- Android 6.0.1
- 10 inch tablet, built-in
- POE power supply
- 8-Core ARM Cortex A7 CPU, 1.2GHz
- 2GB RAM
- 8GB Nand Flash
- WiFi, Ethernet, Bluetooth
- USB 2.0 , MicroUSB (OTG), DC Jack



#### WALL MOUNTED TABLET 7" / 10.1" | VOD Series

- Android 12
- 7" / 10"(VOD073 / VOD101) built-in
- POE power supply
- Cortex-A55 Quad-core processor
- 4GB RAM
- 32GB eMMC
- WiFi, Ethernet, Bluetooth
- MicroUSB, RJ45, RS-485



#### IP65 SEMI RUGGED TABLET 8" T8130R (not wall mounted)

- Android 12.0
- 7-inch Capacitive Touch Screen
- 4G-LTE / Wi-Fi / Bluetooth / NFC
- GPS / GNSS / Glonass / BeiDou
- DC Input / RS232 / RJ45 / 2x USB Port
- Rechargeable Battery
- 6000mAh battery, 6 hours endurance
- 5MP Front & 13MP Back Camera

## TABLET Wall Mounted



APC140F13



APC156F85



APC185F53



APC240F03



APC270F03



APC328F85



APC430F03



APC550F03



### WALL MOUNTED MODELS

Allow cables to be safely stored in the back and can be mounted on any **VESA compatible stand**.

### KEY FEATURES

- Screen Size : 14.0" to 55.0"
- Front Camera
- 2GB RAM + 16GB Storage
- Some Wall Mount models work with PoE
- Resolution : 1366 x 768 / 1920 x 1080
- 1 x Micro-USB OTG / 1 x RJ45 (PoE)
- 1 x HDMI / 1 x Audio-out / 1 x Power-in
- VESA Mounting Interface

## TABLETS PoE

## TABLET Led Bar

POE TABLETS

LED BAR TABLETS



### POE MODELS

The **special feature** is the power supply via "PoE", which means you **only need one cable** for **power** and **data** supply.

### KEY FEATURES

- Screen Size : 8.0" / 10.1" / 11.6" / 15.6"
- Wall mounted tablets
- Front Camera
- 2GB RAM + 16GB Storage
- Resolution : 1280 x 800 / 1920 x 1080
- 2 x USB Host / 1 x Micro-USB OTG / 1 x USB RS232
- 1 x RJ45 (PoE) / 1 x HDMI / 1 x Audio-out / 1 x Power-in
- More information on [giga-concept.fr](http://giga-concept.fr)



### LED BAR MODELS

Add **colorful side-view LEDs** to make the perfect conference room sign or **attention grabbing digital installation**.

### KEY FEATURES

- Screen Size : 10.1" / 13.3" / 15.6"
- Wall mounted tablets
- Front Camera / 2GB RAM + 16GB Storage
- Some LED BAR models work with PoE
- Resolution : 1280 x 800 / 1920 x 1080
- 1 x USB 3.0 Host / 1 x Micro-USB OTG / 1 x USB RS232
- 1 x RJ45 (PoE) / 1 x Audio-out / 1 x Power-in
- More information on [giga-concept.fr](http://giga-concept.fr)



# VEHICLE DEVICES



## YOUR OWN SOFTWARE SOLUTION ON OUR NAVIGATION DEVICES

Personal navigation devices (PND) are **portable devices specifically designed to run road navigation applications.**

Like in-vehicle navigation systems, PNDs have the advantage of being more **affordable, portable, universal** and more easily upgradeable.

Our PNDs (personal navigation devices) running on Windows CE or Android, offer connectivities options improving the user experience.

**Bluetooth, GSM/GPRS/3G, USB, RS232, NFC** and more.  
We also offers support on your developments with our PND.

## PROFESSIONAL DEVICES FOR A LARGE RANGE OF VEHICLE TO MEET YOUR SPECIFIC NEEDS !

Nowadays, in order to meet the needs of **modern mobile communication**, vehicles are loaded with various antennas.

**The Internet of vehicles (IoV)** is an important part of mobile communication system with the development of IoT.

**Real-time vehicle monitoring** and tracking, automatic accurate vehicle location & fleet management, SMS messaging and mobile communication, internet connectivity and more...

## ACCESSORIES & CRADLES

Simple Cradle, Active Cradle, Anti-theft Cradle, Suction Mount, Fixed Mount, Cigarette Charger, AC Home Charger, USB Cable, Headphones, and more !



### Monitoring Systems | GM2U / GM2H

Real-time DMS with an HD image sensor and a driver safety alert vis LED and/or sound.

Sleep deprivation detection & alert.  
Works in dark environment (tunnels or at night) via infrared LED and tracks eyes beyond smoke, glasses or sunglasses.



### Anti-fuel theft 4G-LTE/3G | Fuel Alert

The Fuel Alert warns you in case of theft or abnormal fuel leakage thanks to its unique detection system, without false alarm.

Easily connected, with intelligent electronics and directly linked to the tank gauge (see diagram below).  
The Fuel Alert monitors any anomaly.



### Connected anti-theft device | TRC-868

Anti-theft detection system operating on the LoRaWAN™ network detecting cabin intrusion, vehicle relief and power cut.

Ideal for all vehicles, especially trucks, tractors, construction equipment, etc. with valuable equipment or accessories.  
Dedicated back office (Sentinel/Interceptor).



GMT200N



Compact IPX6 GPS/GNSS plotter with very low power consumption | GMT200



GPS/GNSS tracker specially designed for two-wheelers and other vehicles (motorboats, water scooters, etc.) requiring accurate tracking and geolocation without power consumption during immobilisation.

- GPS, GNSS, QZSS, Galileo, GLONASS, BeiDou,
- Small size for discreet installation,
- Wide operating voltage range,
- Multiple inputs/outputs,
- Zero power consumption when power is off,
- Water resistant, IPX6 compliant.



### GPS/GLONASS 4G-LTE Cat-M1/NB-IoT vehicle location system | GC-ST4500

Solution for fleet management in need of monitoring location, speed, and other codes available on the OBD port of vehicles.  
Dedicated back office (Sentinel/Interceptor).

Easy and self-installation in the form of a plug and play. Provides the various accessible information (RPM, calculated load value, coolant temperature, fuel system status, vehicle speed, etc...)



### Wireless camera kit + 7" screen Night vision | GC-V76362-W

This wireless rear view camera and display package is suitable for all types of vehicles. It greatly increases the view around and behind the vehicle, especially with its wide angle format.

The possibility of adding an additional camera allows you to double the viewing angles in order to keep everything around the vehicle under control.



### Vehicle kit with 4 HD cameras + 7" colour monitor | GC-V774152-W

Pack with 4 cameras + HD colour screen is designed for all types of vehicles: trucks, lorries, construction equipment, etc.

It considerably increases the vision front, around and behind the vehicle, notably thanks to the wide angle format and its screen capable of displaying all 4 views at the same time. It delivers enhanced security protection.




# PERSONAL NAVIGATION SYSTEM



OVERVIEW	PN7070	PN7090	PN7092	PN7043
Microprocessor	Quad-core 1.0 GHz Cortex-A7	Quad-core ARM Cortex-A7	Qualcomm Octa-core ARM Cortex-A53 up to 2.0 GHz	Octa-core ARM Cortex-A53
RAM	1 GB DDR3 RAM	2 GB LPDDR3 RAM	3 GB LPDDR3 RAM	2 GB DDR4 RAM
ROM	8 GB eMMC Flash	16 GB eMMC Flash	32 GB eMMC Flash	32 GB eMMC
Android	Android 7.1.2 NougatOS	Android 7.1.2	Android 12.0	Android 9.0
LoRa (optional)	-	-	-	Embit EMB-LR1272 LoRa Module
WWAN	LTE 4G Optional	4G-LTE	4G-LTE	4G-LTE Cat-4, Cat-7 DL / Cat-13 UL
WLAN	IEEE 802.11 a/b/g/n	IEEE 802.11 a/b/g/n, 2.4/5 GHz dual-band	IEEE 802.11 a/b/g/n/ac, 2.4/5 GHz dual-band	IEEE 802.11 b/g/n, 2.4/5 GHz dual-band
BLUETOOTH	BT2.1+EDR/3.0/4.1LE Optional	Bluetooth 4.2 LE	Bluetooth 5.0 LE	Bluetooth 5.0
NFC (optional)	-	13.56 MHz (optional)	13.56 MHz (optional)	ISO / IEC
GPS/GNSS	SiRFstar V GNSS Receiver	GNSS (GPS / GLONASS)	GNSS (GPS / GLONASS)	GNSS Antenna Module
DISPLAY	7" TFT LCD 1024 x 600 pixels	7.0-inch TFT LCD panel 1280 x 800 pixels, 800 nits	7.0-inch TFT LCD panel 1280 x 800 pixels, 800 nits	7.0-inch TFT LCD panel 1024 x 600 pixels
Type	Capacitive touch panel	Capacitive touch panel	Capacitive touch panel	Capacitive touch panel
CAMERA (optional)				
Front	-	0.2M-pixel Front Camera	5.0M-pixel Front Camera	-
Rear	-	8.0M-pixel Back Camera with Auto-focus & Flashlight	16.0M-pixel Back Camera with Autofocus & Flashlight	16M-pixel Back Camera with Autofocus & Flashlight
Port	USB 2.0 host, SD Card, SIM Card, RS232, D-SUB Port	USB-C, SD Card, SIM Card, Jack, RS232, Speaker, Microphone	USB-C, SD Card, SIM Card, Jack, RS232, Speaker, Microphone	USB-C, SD Card, SIM Card, RS232, Speaker, Microphone
Battery	-	5000 mAh Battery	5000 mAh Battery	4300 mAh Battery
Cradle and Accessories	Mounting Pedestal 9V-36V DC Power Input Range	Mounting Pedestal DC 8-36V Power Input	Mounting Pedestal DC 8-36V Power Input	Mounting Pedestal, DC 9-36V Power Input via Active Cradle

# ANTENNAS FOR VEHICLES





**GC-7110B**


IP69 outdoor TETRA IP67/IP69/IK09

**Gain** ± 2.5dBi

**Connectors** N-Female

**Dimensions** Ø 96 × 130 (mm)

**Mounting** Screw Mount



**GC-8407BGF**


GPS/GNSS TETRA/UHF IP67/IP69

**Gain** 2dBi / 27dB@5V

**Connectors** SMA (M)

**Dimensions** 99 × 60 × 154

**Mounting** Screw Mount



**GC-8600BGF**


3G/2G GPS/GNSS IP67/IP69

**Gain** 6.7dBi / 27dB@5V

**Connectors** SMA (M)

**Dimensions** 98 × 60 × 46

**Mounting** Pole



**GC-441RGP**


Iridium hemispherical outdoor IP67

**Gain** 4.1dBi

**Connectors** SMA (M)

**Dimensions** 161 × 76.5 × 16

**Mounting** Adhesive



**GC-8606BGF**


3G/2G LPWA GPS/GNSS WiFi/BT IP69

**Gain** 5.1dBi / 27dB@5V

**Connectors** RP-SMA (M) / SMA (M)

**Dimensions** 98 × 60 × 46

**Mounting** Screw Mount



**GC-4A50PCF**


2×4G-LTE 3G/2G 2×2.4/5GHz WiFi/BT IoT LPWA GPS/GNSS IP69

**Gain** 4dBi / 28dB@2.7V

**Connectors** SMA (M) / RP-SMA (M)

**Dimensions** 61.8 × 155.6 × 17.0

**Mounting** Adhesive



**GC-4841PGF**


4G-LTE 3G/2G LPWA GPS/GNSS IP69

**Gain** 2.4dBi / 28dB@2.7V

**Connectors** SMA (M)

**Dimensions** 83 × 35 × 13.3

**Mounting** Adhesive



**GC-7182BGF**

4G-LTE 3G/2G WiFi TETRA/UHF GPS/GNSS IP67/IP69/IK09

**Gain** 5.6dBi / 28@2.7V

**Connectors** SMA (M) / SMA-RP(M)

**Dimensions** Ø 96 × H 130

**Mounting** Screw Mount



### KEY FEATURES

- Active gain up to 10 dBi
- Compatible with all type of vehicle
- Compatible various technologies
- No compromise on performance
- Ultra Wide band Antenna

### UNLIMITED CUSTOMIZATION

- Custom manufacturing
- Multiple form factor
- Prototyping service
- EM simulations on demand
- Customizable cable & connector

### SCREW, ADHESIVE, AND MORE :

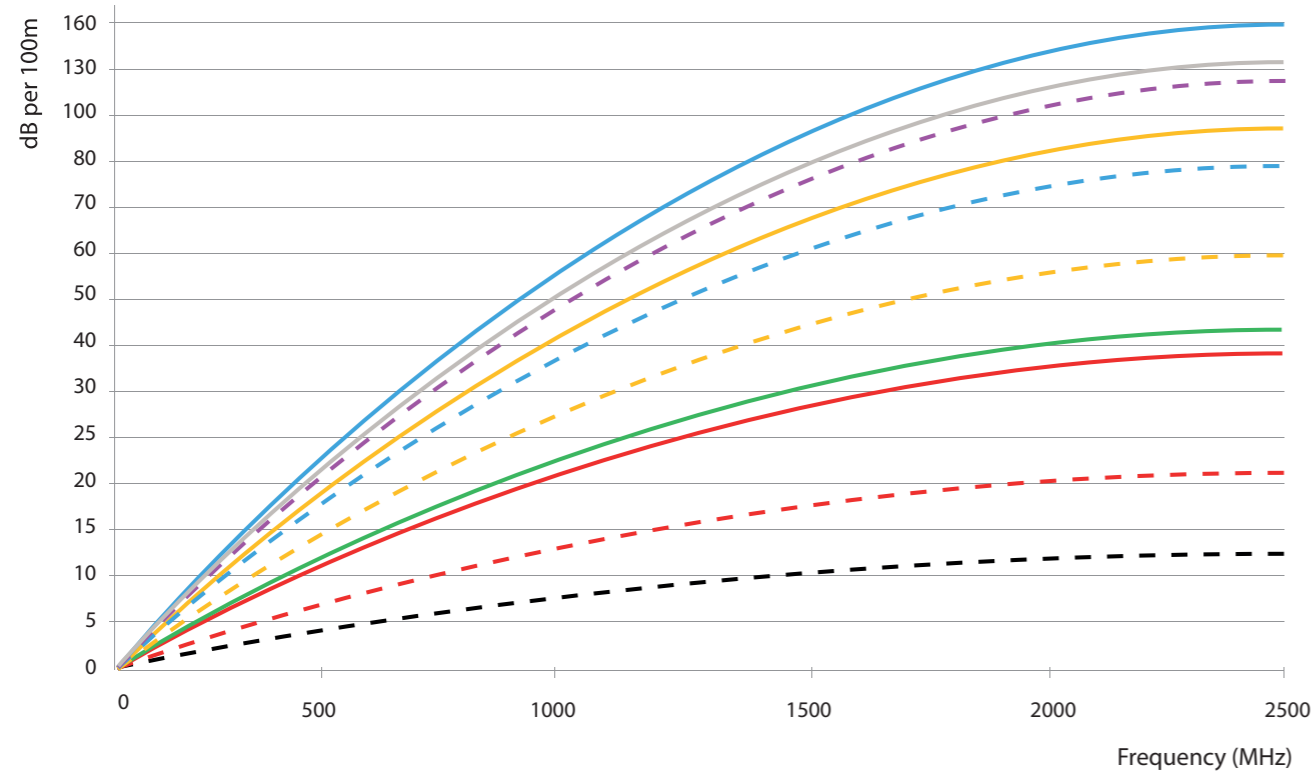


PERSONAL NAVIGATION

VEHICLE ANTENNAS

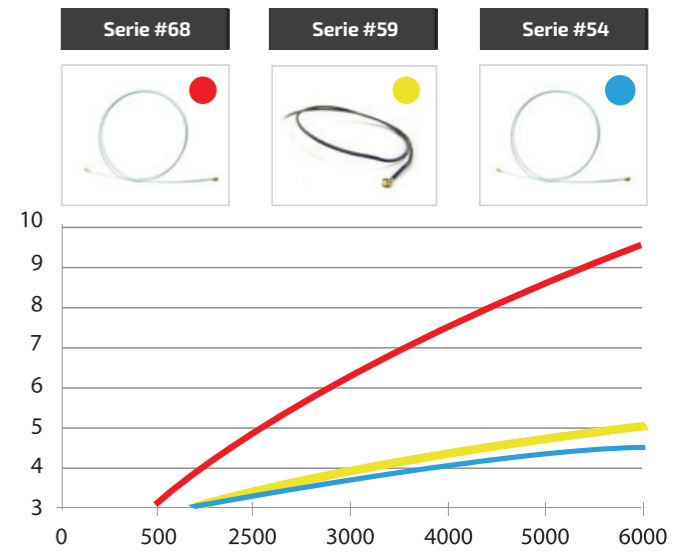
# COAXIAL CABLES

Cable Type	Min Bend Radius	Center conductor	Center conductor diameter (mm)	Dielectric	Overwall diameter (mm)	Shielding Effectiveness (dBmin)
--- Serie S600 LOW LOSS	50	Solid BCCAI	4.47	Foam PE	14,9	-90
- - - Serie S400 LOW LOSS	50	Solid bare copper clad aluminium	2.74	Foam PE	10.3	-90
— Serie S214	50	Copper Silver	2.25	Solid PE	10.80	-80
— Serie S240	50	Solid BC	1.42	Foam PE	6,10	-90
- - - Serie S195 LOW LOSS	12.7	Solid bare copper	0.94	Solid PE	4.95	-90
— Serie S58	15	Copper single braid	0.90	Solid PE	4.95	-60
- - - Serie S174 LOW LOSS	20	Stranded E-Cu Xire, bare	0.81	Solid PE	3.20	-60
— Serie S174	20	Solid bare copper	0.48	Foam PE	2.80	-60
- - - Serie S100 LOW LOSS	50	Solid BCCS	0.46	Solid PE	2,80	-90
— Serie S316	15	Silver Plated copper	0.51	Solid PTFE	2.52	-60



# COAXIAL CABLES Miniature

	Serie #68	Serie #59	Serie #54
Center conductor	Silver Plated copper	Silver Plated copper	Silver Plated copper
Center conductor diameter (mm)	0.15	0.24	0.305
Dielectric	Solid PFA / 0.4	Solid FEP / 0.68	Solid FEP / 0.88
Overwall diameter (mm)	0.81	1.13	1,32
Capacitance (pF/m)	96	97	96
Voltage rating (Vrms Max.)	300	300	300
Insertion loss (dB/m)	@ 1GHz : 3.53	@ 1GHz : 2.06	@ 1GHz : 1.61
	@ 2.4GHz : 5.71	@ 2.4GHz : 3.27	@ 2.4 GHz : 2.58
	@ 5GHz : 8.53	@ 5GHz : 4.87	@ 5 GHz : 4.1



# OUR CABLE WORKSHOP



Cutting machine ✓



Stripping ✓










Crimp ✓



Touret/crown ✓

# Cable customization

-  Coaxial cable strip
-  Coaxial cable processing
-  Comfortable cable processing
-  Multilayer stripping
-  Two-layer stripping
-  Discrete wire stripping
-  Full stripping

CONNECTORS

CONNECTORS

# COAXIAL

## A WIDE RANGE OF HIGH QUALITY COAXIAL CONNECTORS

### DESIGNED TO FIT ALL TYPES OF COAXIAL CABLES

SMA/RP-SMA, Type N, BNC/RP-BNC, TNC/RP-TNC, UFL (IPEX) FME, SMB, MC, MCx, MMCx/RP-MMCx, Fakra, UHF, mini UHF, etc... Straight or angled, pre-wired or crimped. Cables and connectors are customizable on demand.



SMA CONNECTOR (code-01)	
Frequency	DC-18GHz
Impedance	50 Ohms
Insertion Loss	0.2 dB Max
VSWR	1.3:1 Max
Available Type	Female, Male, Straight, Right Angle, Bulkhead, Reverse polarity
Mouting	Crimp, solder, PCB, Flange mount



N CONNECTOR (code-05)	
Frequency	DC-11GHz
Impedance	50 Ohms
Insertion Loss	0.2 dB Max
VSWR	1.3:1 Max
Available Type	Female, Male, Straight, Right Angle, Bulkhead
Mouting	Crimp, Clamp, Panel Mount



FME CONNECTOR (code-12)	
Frequency	DC-2GHz
Impedance	50 Ohms
Insertion Loss	0.2 dB Max
VSWR	1.3:1 Max
Available Type	Female, Male, Straight, Bulkhead
Mouting	Crimp, Bulkhead



MCX/MMCX CONNECTOR (code-03 / code-04)	
Frequency	DC-6GHz
Impedance	50 Ohms
VSWR	1.3:1 Max (Straight) 1.5:1 Max (Right Angle)
Available Type	Crimp, Solder, socket and PCB, Edge cart, SMT
Mouting	Crimp, Solder, socket and PCB



SMB CONNECTOR (code-02)	
Frequency	DC-4GHz
Impedance	50 Ohms
VSWR	1.3:1 Max (Straight) 1.5:1 Max (Right Angle)
Insertion Loss	0.4 dB ( Straight) 0.6 dB (Right Angle)
Available Type	Female, Male, Straight, Right Angle, Bulkhead
Mouting	Crimp, Solder, Bulkhead and PCB



MICRO CONNECTOR	
Frequency	Up to 6GHz
VSWR	1.3:1 Max
Withstanding V.	AC 300 Vrms
Compatibility	MCA: FSC (Murata) MCB: U.FL ( Hirose ) / MHF (I-PEX) MCB2 Low profile : U.FL (V) (Hirose) MCD : W.FL (Hirose) MCF : GSC (Murata) MCG : H.FL (Hirose)



FAKRA CONNECTOR (code-25 GPS / code-26 GSM)	
Frequency	DC-6GHz
Impedance	50 Ohms
Insertion Loss	0.2 dB Max
VSWR	1.3:1 Max
Available Type	Crimp, Solder, socket and PCB, Edge cart, SMT
Mouting	Crimp, Solder, socket and PCB



MCBG SOCKET	
Frequency	Up to 6GHz
Impedance	50 Ohms
VSWR	1.3:1 Max
Withstanding V.	AC 300 Vrms
Durability	50 Cycles
Mouting	SMT

# COAXIAL ADAPTORS

## DESIGNED TO FIT ALL TYPES OF COAXIAL CABLES

RF adapters are passive coaxial components used to **transfer signals from one type of connector to another**. For example, they are useful for connecting an SMA-type interface to an N-type interface, BNC to TNC, etc.

to be connected between them : antennas, modems, routers, gateways, etc.

CONNECTOR	BNC		F		N		TNC		UHF		MINI UHF		FME		SMA		
	male	female	male	female	male	female	male	female	male	female	male	female	male	female	male	female	
BNC	male	V-7046	V-7047	V-7049	V-7050	V-7051	V-7052	V-7057	V-7058	V-7059	V-7060	✗	V-7611	V-8113	V-8151	V-7819	V-7829
	female	V-7047	V-7061	V-7243	V-7066	V-7324	V-7068	V-7438	V-7073	V-7519	V-7074	V-7607	✗	V-8115	V-8152	V-7820	V-7830
F	male	V-7049	V-7243	V-7234	V-7235	V-7237	V-7244	V-7240	V-7247	V-7241	V-7248	✗	✗	✗	✗	✗	✗
	female	V-7050	V-7066	V-7235	V-7242	V-7325	V-7249	V-7439	V-7252	V-7520	V-7253	V-7608	✗	✗	✗	✗	✗
N	male	V-7051	V-7324	V-7237	V-7325	V-7321	V-7322	V-7327	V-7328	V-7329	V-7330	✗	V-7612	V-8118	✗	V-7823	V-7833
	female	V-7052	V-7068	V-7244	V-7249	V-7322	V-7323	V-7440	V-7334	V-7521	V-7335	✗	✗	✗	✗	V-7824	V-7834
TNC	male	V-7057	V-7438	V-7240	V-7439	V-7327	V-7440	V-7430	V-7431	V-7437	V-7443	✗	V-7613	V-8120	V-8157	V-7825	V-7835
	female	V-7058	V-7073	V-7247	V7252	V-7328	V-7334	V-7431	V-7433	V-7523	✗	V-7609	V-7613F	V-8122	V-8158	V-7826	V-7836
UHF	male	V-7059	V-7519	V-7241	V-7520	V-7329	V-7521	V-7437	V-7523	V-7514	V-7516	✗	V-7614	V-8123	✗	V-7827	V-7837
	female	V-7060	V-7074	V-7248	V-7253	V-7330	V-7335	V-7443	✗	V-7516	V-7515	V-7610	✗	✗	✗	V-7828	V-7838
MINI UHF	male	✗	V-7607	✗	V-7608	✗	✗	✗	V-7609	✗	V-7610	V-7605	V-7615	V-8125	V-8161	V-7821	V-7831
	female	V-7611	✗	✗	✗	V-7612	✗	V-7613	V-7613F	V-7614	✗	V-7615	V-7606	V-8128	V-8162	V-7822	V-7832
FME	male	V-8113	V-8115	✗	✗	V-8118	✗	V-8120	V-8122	V-8123	✗	V-8125	V-8128	V-8110	✗	V-8129	V-8132
	female	V-8151	V-8152	✗	✗	✗	✗	V-8157	V-8158	✗	✗	V-8161	V-8162	✗	V-8150	V-8163	V-8164
SMA	male	V-7819	V-7820	V-7847	V-7857	V-7823	V-7824	V-7825	V-7826	V-7827	V-7828	V-7821	V-7822	V-8129	V-8163	V-7816	✗
	female	V-7829	V-7830	V-7858	✗	V-7833	V-7834	V-7835	V-7836	V-7837	V-7839	V-7831	V-7832	V-8132	V-8164	✗	V-7817



Connector	
A	N-male
B	SMA-male



Connector	
A	SMA-female
B	UFL/HFL



Connector	
A	FME-male panel
B	UFL/HFL



Connector	
A	FME-male panel
B	MMCX-male

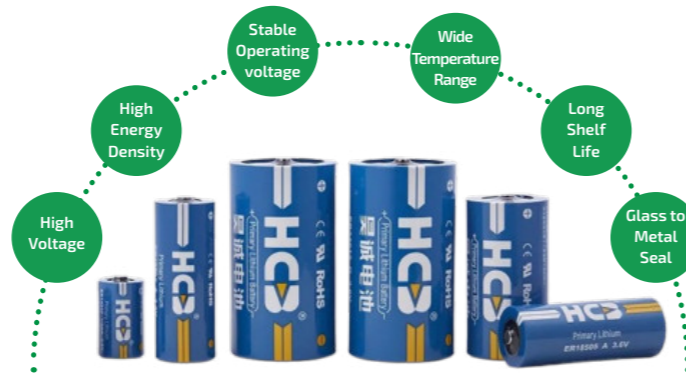


Connector	
A	FME-male panel
B	MMCX-male



HCB is a company committed to the primary lithium battery field, with a full range of lithium batteries, R&D capabilities and boasting a long history of lithium battery production.

The company's main lithium batteries include Li-SOCl<sub>2</sub> cylindrical batteries, Li-MnO<sub>2</sub> cylindrical batteries, Li-MnO<sub>2</sub> pouch cells, and Ultra-pulse capacity.



**ER14250M**

- Open circuit voltage (at 25°C) : ≥3.65V
- Nominal capacity : 800mAh
- Maximum continuous current : 100mA
- MPDC\* : 200mA

**ER14505**

- Open circuit voltage (at 25°C) : ≥3.65V
- Nominal capacity : 2600mAh
- Maximum continuous current : 50mA
- MPDC\* : 150mA

**ER14505M**

- Open circuit voltage (at 25°C) : ≥3.65V
- Nominal capacity : 2100mAh
- Maximum continuous current : 400mA
- MPDC\* : 800mA

**ER17505**

- Open circuit voltage (at 25°C) : ≥3.65V
- Nominal capacity : 3600mAh
- Maximum continuous current : 100mA
- MPDC\* : 180mA

**ER18505M**

- Open circuit voltage (at 25°C) : ≥3.65V
- Nominal capacity : 3500mAh
- Maximum continuous current : 600mA
- MPDC\* : 1200mA

**ER26500**

- Open circuit voltage (at 25°C) : ≥3.65V
- Nominal capacity : 8500mAh
- Maximum continuous current : 150mA
- MPDC\* : 250mA

**ER34615**

- Open circuit voltage (at 25°C) : ≥3.65V
- Nominal capacity : 19000mAh
- Maximum continuous current : 250mA
- MPDC\* : 400mA

**ER261020**

- Open circuit voltage (at 25°C) : ≥3.65V
- Nominal capacity : 15000mAh
- Maximum continuous current : 250mA
- MPDC\* : 450mA

**ER341245**

- Open circuit voltage (at 25°C) : ≥3.65V
- Nominal capacity : 36000mAh
- Maximum continuous current : 400mA
- MPDC\* : 650mA

\* Maximum pulse discharge current

PROFESSIONAL AND CUSTOMISED BATTERIES

GigaConcept offers a range of batteries specifically designed for industrial wireless applications that demand a compact form factor, enhanced safety, and high performance.

To address the most stringent technical requirements, we also provide custom battery design and manufacturing services—tailored to your specifications in terms of dimensions, capacity, voltage, and more.

Whether you need a standard solution or a fully customized power source, our team is here to support your project from concept to production. Feel free to contact us to discuss your specific needs or technical constraints



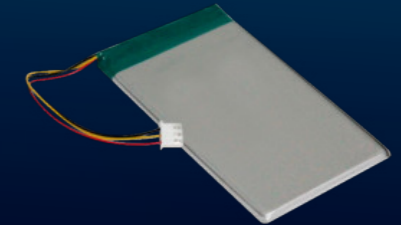
9400 series lithium-ion battery - 1300mAh

- 1300mAh rechargeable lithium-ion battery
- Nominal voltage: 3.70 V
- Charging voltage: 4.20 ± 0.05 V
- Dimensions: 5.4 x 37.7 x 62 mm
- Weight: 25 g



9100 series lithium-ion battery - 2600mAh

- 2600mAh rechargeable lithium-ion battery
- Nominal voltage: 3.70 V
- Charging voltage: 4.20 ± 0.05 V
- Dimensions: 5.4 x 38.5 x 62 mm
- Weight: 49 g



9100 series lithium-ion battery - 2600mAh

- 2600mAh rechargeable lithium-ion battery
- Nominal voltage: 3.70 V
- Charging voltage: 4.20 ± 0.05 V
- Dimensions: 5.4 x 38.5 x 62 mm
- Weight: 49 g

Sustainable energy for every journey!



## Always stay one step ahead

GigaConcept offers you a **wide choice of products**, technologies and partners to meet your needs. We **study** your project, **accompany** you from the **beginning to the end** with the best **results and performances**.



## Research and Development

Since **2003**, GigaConcept has chosen to increase its competences in research and development by creating **its own R&D department**.

In addition to sales, the R&D department offers **assistance, advice, development and design** of products or solutions that meet the **customer's needs**.

Every products we develop are **fully tested** and receive a validation from our R&D team. In direct contact with companies like SNCF, RATP, Renault, etc.

GigaConcept also **writes the technical and implementation documents**.

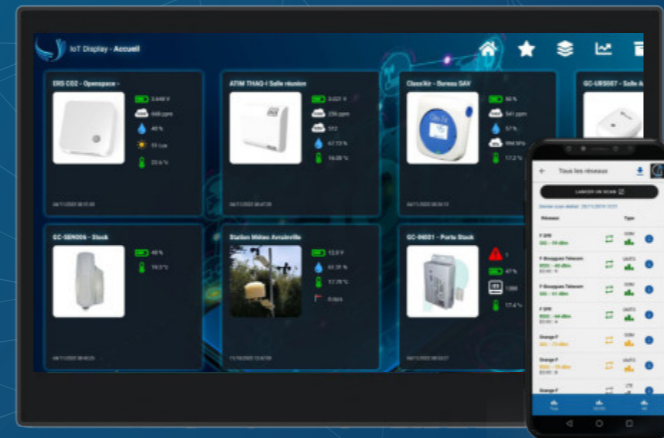


## The world of RF dedicated to professionals

- IoT sensors (Measurement, Security, Levels, Tracking, ...)
- IoT Gateways, Modems & Routers (4G, LoRaWAN™, LTE Cat.M1, ...)
- Repeaters / Signal amplifiers (3G / 4G / 5G, GPS, LoRa, ...)
- Wireless communication modules (4G, Wifi, BT, GNSS, LoRa, ...)
- Custom RF antennas (GSM, Wifi, Bluetooth, GPS/GNSS, LoRa, ...)
- Low-loss coaxial cables (custom extensions and cords)
- RF components and accessories (connectors, adapters, splitters, ...)
- Vehicle systems (GPS communicating displays, road safety, ...)

## Web, android & iOS custom softwares

GigaConcept goes as far as **developing web interfaces** and applications for its products & custom ers. These allow to display, retrieve data and manage everything in a simple & efficient way.



[www.giga-concept.fr](http://www.giga-concept.fr)



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## Headquarters, Research Department and Logistics Warehouse

### France

20 rue Louise de Vilmorin, 91630 Avrainville

Tel +33 (0)1 60 82 86 33 | Fax +33 (0)1 60 82 06 82

Web : [www.giga-concept.fr](http://www.giga-concept.fr)

### South Korea

28 Daehak-ro, Yuseong-gu, Daejeon, South Korea

Tel +82 (0)4 28 28 78 08 | Fax: +82 (0)4 28 28 78 07

[sales@giga-concept.kr](mailto:sales@giga-concept.kr)

### CONTACT US



[info@giga-concept.fr](mailto:info@giga-concept.fr)



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