



PRODUCT CATALOGUE

Antennas | M2M Modules | Components | Systems



www.giga-concept.fr

2018

 **Giga-concept**
Electronic components

OUR PARTNERS...



CHOOSE YOUR NETWORKS !



You can choose one or all of them...

This all depends on the final application, no matter if you use a mobile phone or an industrial platform, we have the module for you.

Our disruptive approach allows us to bring our radio frequency knowledge to your custom applications.

The module spectrum covering is very large and adaptative.

Our IoT platforms support all the industry standards and are market oriented.

Processing depending on the chosen module :

- Espressif ESP32 Chipset :
 - MicroPython enabled, the Linux of IoT for fast deployment
- ARM core application processor with dedicated Flash and RAM running Legato®
- STM32 L0 (ultra low power) or F0

Interfaces :

- UART / SPI / I2C
- Micro SD
- Analog channels :
 - 8*12 bits ADCS Times
 - DMA on all peripherals
- GPIO : Up to 24



AMPLIFIERS Communication 2G/3G/4G LTE

More products available on www.giga-concept.fr

HiBOOST LCD Signal Boosters



RECEIVE A MOBILE GSM/3G/4G SIGNAL AND BOOST IT INSIDE YOUR BUILDING!

In the modern communication world, almost everybody use a smartphone. But some places don't have a good coverage and a weak GSM/3G or 4G LTE signal doesn't enable a good use of your phone. Most of the time, those places are warehouse, tunnel, underground car park and isolated houses...

Our amplifiers range is ideal to solve this problem!

HOW DOES IT WORK ?

The amplifier receive a weak GSM/3G or LTE signal from the outdoor antenna. The weak signal goes to the repeater where it is amplified. The amplifier broadcasts a perfect signal in your place thanks to indoor antenna(s).

KEY BENEFITS

Unlimited number of calls at the same time

No broadband connection needed

All mobile operators get boosted

Extends the battery life of your mobile devices

Easy to install & Giga-concept support

IDEAL FOR

Isolated house, Office

Tunnel, Warehouse, Underground car park...

For more informations, ask our sales team...



ARE YOU LOOKING FOR INSTALLERS IN FRANCE ?

Giga-concept works with professionals to install amplifiers in differents places : offices, warehouse, car park....

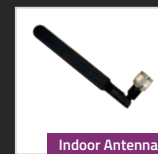
NEW 2018 ! Discover Giga-network.fr platform services !



GIGA-CONCEPT ACCESSORIES



Splitter



Indoor Antenna



Directional Antenna



LMR400 Cable



N Connector



Omnidirectional

AMPLIFIERS Product Range

More products available on www.giga-concept.fr



AMPLIFIERS	HI13-EGSM	HI13-3G	HI13-EW	HI13-5S	HI17-5S	HI20-5S	HI235S
FREQUENCIES							
4G/LTE (800 MHz)				✓	✓	✓	✓
GSM (900 MHz)	✓		✓	✓	✓	✓	✓
DCS (1800 MHz)				✓	✓	✓	✓
3G (2100 MHz)		✓	✓	✓	✓	✓	✓
4G/LTE (2600MHz)				✓	✓	✓	✓
Coverage							
Coverage (m ²)	500 m ²	500 m ²	500 m ²	500 m ²	1000 m ²	2000 m ²	3000 m ²
GAIN							
Uplink	60 dB	60 dB	60 dB	65 dB	65 dB	65 dB	70 dB
Downlink	65 dB	65 dB	65 dB	65 dB	65 dB	70 dB	75 dB
KIT							
Includes	Amplifier, Indoor Antenna, Outdoor Antenna, Cables & Notice						
CE / RoHs	Yes	Yes	Yes	Yes	Yes	Yes	Yes

ANTENNAS Recommended

ANTENNAS	HP-003H	HP-001B	HP-004H	HP-005B	GC-2024GP
		Directionnal		Omnidirectionnal	
FREQUENCIES					
GSM (900 MHz)					
3G (2100 MHz)					
4G/LTE 700-2600 MHz					
Antenna	Outdoor	Indoor	Outdoor	Indoor	Indoor
Gain (dB)	8-9 dB	5-7 dB	7 dB	3-5 dB	2.2 dB

Need a hardware installation ?

Connect to www.giga-network.fr !



Giga-network
Wireless business provider

ADVICE - AUDIT - INSTALLATION ON DEMAND



Electrical Specification

Frequency	869 +/-1 MHz
Gain	17 dB downlink - 14 dB uplink
VSWR	1.4 typ. 2.0 max
Noise Figure	5 dB
Voltage	12 v / 220 mA

HOW IT WORKS

The amplifier receives a signal from the outdoor antenna. The weak signal goes to the repeater where it is amplified. The amplifier broadcasts a boosted signal in your place.

Mechanical Specification

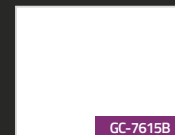
Dimension	85 x 96 x 30mm
Connector	Alimentation DC = 2.1mm PQ10 Antennas = x2 SMA Female

Electrical Specification

Frequency	GPS (1575.42 MHz +/- 1 MHz)
Gain	35 dB max
VSWR	<1.80:1
Noise Figure	5 dB
Voltage	12 v / 400 mA



DON'T HESITATE TO ASK OUR SALES TEAM FOR CUSTOM ANTENNA.





9400H Battery	
Rating Voltage	3.7 V
Charging Voltage	4.20 V ± 0.05 V
Capacity	1300 mAh
Protection Circuit	Yes
Battery Cycle Life	400 Cycles
NTC	10 K Ω +5 @ 25 °C - b25/85+3500 $\pm 3\%$
Size	54mm x 36mm x 6,4mm



9100 Battery	
Rating Voltage	3.7 V
Charging Voltage	4.20 V ± 0.05 V
Capacity	2600 mAh
Protection Circuit	Yes
Battery Cycle Life	400 Cycles
NTC	10 K Ω +5 @ 25 °C - b25/85+3500 $\pm 3\%$
Size	54mm x 36mm x 11,5mm



GL10 Battery	
Rating Voltage	3.7 V
Charging Voltage	4.20 V ± 0.05 V
Capacity	1000 mAh
Protection Circuit	Yes
Battery Cycle Life	400 Cycles
Electrostatic Test	± 8 KV on air
NTC	10 K Ω +5 @ 25 °C - b25/85+3500 $\pm 3\%$
Size	90mm x 55mm x 18mm



GL5000 Battery	
Rating Voltage	3.7 V
Charging Voltage	4.20 V ± 0.05 V
Capacity	5000 mAh
Protection Circuit	Yes
Battery Cycle Life	400 Cycles
Electrostatic Test	± 8 KV on air
NTC	10 K Ω +5 @ 25 °C - b25/85+3500 $\pm 3\%$
Size	90mm x 55mm x 9mm



GC773759-1S1P	
Rating Voltage	3.7 V
Charging Voltage	4.20 V ± 0.05 V
Capacity	2000 mAh
Protection Circuit	Yes
Battery Cycle Life	300 Cycles
NTC	10 K Ω +5 @ 25 °C - b25/85+3500 $\pm 3\%$
Size	62mm x 38mm x 8mm



GC65560106-1S1P	
Rating Voltage	3.7 V
Charging Voltage	4.20 V ± 0.05 V
Capacity	5000 mAh
Protection Circuit	Yes
Battery Cycle Life	300 Cycles
NTC	10 K Ω +5 @ 25 °C - b25/85+3500 $\pm 3\%$
Size	110mm x 60mm x 6,5mm

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