

Featured

Selecting the right antenna for your next generation IoT solutions

Antennas

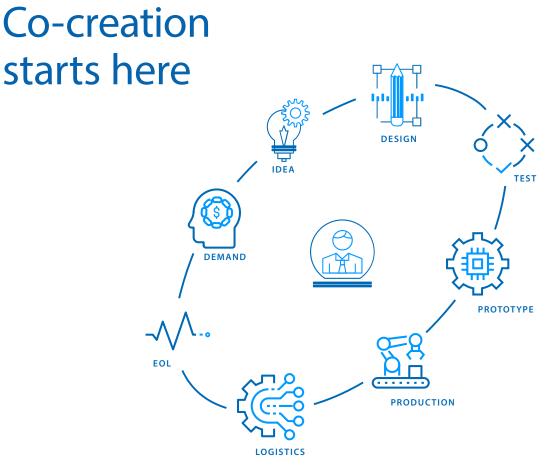


Antennas & Alcom



Antennas are the eyes and ears of wireless communication. Through them, wireless communication breathes and comes alive!

In the past two decades, antenna technology has emerged as one of the most critical components in the advancement of wireless communication. With the advent of IoT and 5G communications, the adoption of effective antennas will expedite commercialization of solutions which can support high-speed communications. Antenna technologies are expected to play an increasingly pivotal role in mobile wireless communications.



Alcom considers everybody an indispensable added value in the collaborative chain with all of its partners.

Markets



CONSUMER ELECTRONICS



HEALTHCARE - MEDICAL



SMART CITIES

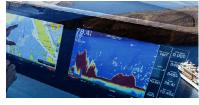


HORTICULTURE/AGRICULTURE





FACTORY AUTOMATION



MARINE



SMART METERING



RETAIL



FACTORY LOGISTICS



NAVIGATION TRACKING



TRAFFIC & TRANSPORTATION



SMART BUILDING





Router & Wireless Set-top box

Smart offices & factories



Technologies



CULLULAR



VEHICLE MOUNT COMPUTERS



IOT SOLUTIONS & SERVICES



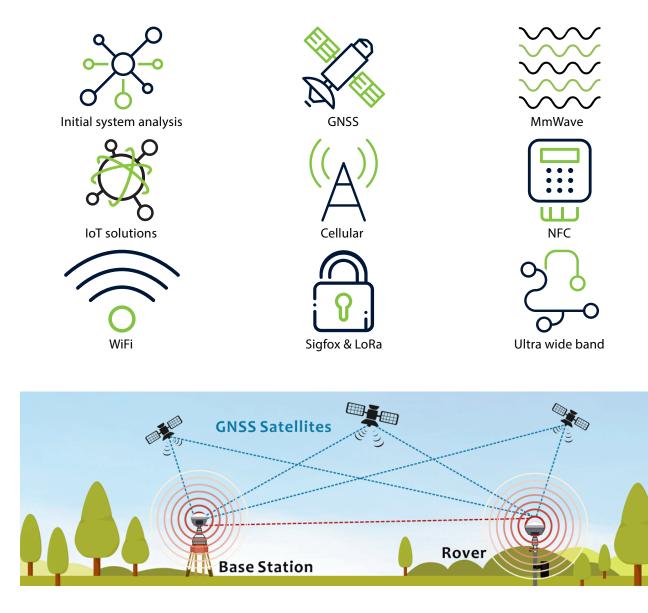
WIRELESS CONNECTIVITY SOC'S & MODULES



SENSORS



One-stop-shop



Antenna overview

Chip Antenna

- GPS/GNSS
- Bluetooth/WiFi/Zigbee •
- GNSS+Bluetooth/WiFi •
- Sub-Giga ISM •
- UWB
- Cellular (3G/4G/5G)
- LPWA (Sigfox, LoRa, NB-IoT)



PCB/FPC Antenna

- Bluetooth/WiFi/ZigBee •
- Cellular (3G/4G/5G)
- ISM/LPWA (Sigfox, LoRa, NB-IoT)
- GNSS

External Antenna (Single, I/O)

- 5G NR
- Cellular (2G/3G/4G)

Patch Antenna

Patch (through hole)

Castle

Patch (SMT)

- GPS/GNSS
- LPWA (Sigfox, LoRa, NB-IoT)
- Sub-Giga ISM
- WiFi



Internal Antenna

Active GPS/GNSS Modules



Embedded Antenna

- LDS Antenna
- Metal Stamping Antenna
- NFC/RFID Antenna



Automotive Antenna

External One Port GNSS Antenna



Represented manufacturers









External Antenna (Combo, Multiple, I/O)

- Screw Mounted
- **Adhesive Mounted**
- Magnetic Mounted



New product releases

GNSS STACKED PATCH MULTI-BAND ANTENNA

The Taoglas Accura GVLB258.A, is a dual-band GNSS L1/L5, highperformance antenna for high precision GNSS accuracy and fast positioning. It utilizes a 25*25*8mm advanced wide-band dual-stacked ceramic patch antenna with optimized gain for GPS L1/L5, Galileo, GLONASS and BeiDou bands.





SIERRA WIRELESS AIRLINK® ANTENNAS

Accelerate your deployment with always-on, end-to-end connectivity provided by our portfolio of high performance AirLink® antennas. Tested and certified to provide guaranteed performance with all AirLink routers and gateways, Sierra Wireless offers an extensive portfolio of AirLink antennas— designed to connect a wide range of mobile and fixed applications in public safety, utilities, industrial and distributed enterprises.

AIRLINK® ANTENNA: 6-IN-1 SHARKFIN

Tested and certified to operate with AirLink routers and gateways, the 6-in-1 SharkFin has a compact OEM style housing that contains 2x2 MiMo antenna function for 2G, 3G, and 4G LTE frequencies, and an active antenna for GNSS with 26dB gain LNA. Mounted via the integral SMA (f) mount, the portable antenna spans 2.4/5.0GHz and, the SharkFin offers dual band 3x3 MiMo Wi-Fi (2.4/5.0GHz) in a compact package.





WIDEBAND 5G FR1, WI-FI 6E, LOW PROFILE ANTENNA

he LPT600/71DMN antenna is a 5G FR1, Low Profile Transit, M2M, IOT Antenna. With exceptional performance, covering 617-960/1710-7125 MHz, with 2dBi and 5.5dBi gain, respectively, creating superior coverage over long distances when compared to similar antennas on the market. The LPT600/71DMN is economically designed without sacrificing the antenna's performance or mechanical robustness.

868/915MHZ DIRECTIONAL TERMINAL MOUNT ANTENNA WITH FLEXIBLE GOOSENECK

The TS.89 Sighunter is a mechanically robust ISM / LoRa / SigFox antenna designed to be directly mounted onto a device via the flexible gooseneck and SMA(M) connector. The adjustable gooseneck cable allows for optimum positioning of the antenna in relation to the device and receive signal. The Sighunter has been designed to operate at either 868MHz or 915MHz frequencies for a fully global LoRa solution.





SMALLEST SIZE HIGH-PRECISION POSITIONING CASTLE PATCH ANTENNA

The traditional bandwidth of ceramic patch antennas is relatively narrow. In order to achieve the broader bandwidth, a two-layer stacked antenna are commonly used. However, the higher cost and more weight could be an issue in some applications.

Alcom product portfolio

ELECTRONIC COMPONENT	WIRELESS EMBEDDED	WIRELESS & INDUSTRIAL	DISPLAY & TOUCH
SOLUTIONS	CONNECTIVITY & SENSORS	CONTROLS NETWORKING	
LED & SOLID STATE LIGHTING	POWER & EMC	RUGGED MOBILE COMPUTING	EMBEDDED SYSTEMS, AI & EDGE COMPUTING

 Semiconductors Frequency & timing Power management Circuit protection & discretes Magnetics Passives & electromechanical Connectors & cable assemblies Photonics 	 Wireless modules Antenna's Sensors
 Routers & gateways Wireless embedded computers Industrial ethernet and IP variations Wired & wireless machine networking Antenna's Device to cloud solutions Connectivity & remote management services Networking & connectivity 	 Displays Touch screens Optical bonding Total display solutions
 LED light sources Optics Thermal management Power & intelligent controls LED modules 	 AC/DC power supplies DC/DC converters Power management modules Wireless charging E-mobility solutions Transformers & power inductors UPS EMC filters
 Tablets PDA's Vehicle mount computers Accessories 	 Computer-on-modules Embedded boards Industrial PC & automation System integration

Bridging the gap between technology, people and business with a human interface.





ALCOM BELGIUM

Alcom electronics nv/sa Singel 3 2550 Kontich Tel: +32 (0)3 458 30 33 Fax: +32 (0)3 458 31 26 Email: info@alcom.be www.alcom.be

ALCOM THE NETHERLANDS

Alcom Electronics B.V. Rivium 1e straat 52 2909 LE Capelle a/d IJssel Tel: +31 (0)10 288 25 00 Fax: +31 (0)10 288 25 25 Email: info@alcom.nl www.alcom.nl

Get to know us

ALCOM PROVIDES THE WORLD'S MOST AD-VANCED TECHNOLOGIES.

With a team of like-minded entrepreneurs, Alcom will continue to inspire its valued customers to use advanced innovative building blocks in vertical markets. The importance of providing high-level services and a human interface based on specialism, knowledge and design-in expertise will remain key differentiators.

Alcom is positioned for growth. We invite all our customers to discuss their current and future concepts and designs. Let's connect, work and grow together.