

iq Product Datasheet

iQloud R15 High Precision GNSS Receiver



The iQloud-R15 provides multi-band GNSS to in a compact form factor. It is a multi-band GNSS module with multi-band RTK technology for centimeter-level accuracy. The iQloud-R15 ensures the security of positioning and navigation information by using secure interfaces and advanced jamming and spoofing detection technologies.

4G NTRIP Client and Multiband Antenna:

It comes complete with a 4G NTRIP Client and dedicated outdoor 4G Antenna. It allows you to connect to your preferred RTK NTRIP service provider from any area with cellphone coverage.

Just introduce your SIM card, configure your SIM card and NTRIP caster parameters, and let the 4G NTRIP Client do the rest.

A survey multiband external GNSS antenna with 2.5m pigtail cable with TNC to SMA connector is included. The supports the following frequencies:

GPS L1/L2

GLONASS L1/L2

BeiDou B1/B2/B3

Galileo E1/E2/E5b/E6

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Technical Specifications:

Features

Receiver type	184-channel GNSS engine GPS L1C/A L2C, GLO L1OF L2OF, GAL E1B/C E5b, BDS B1I B2I, QZSS L1C/A L1S L2C, SBAS L1C/A
Nav. update rate	up to 20 Hz
Position accuracy	0.01 m + 1 ppm CEP
Convergence time	< 10 sec
Acquisition	Cold starts 24 s Aided starts 2 s Reacquisition 2 s
Sensitivity	Tracking & Nav. -167 dBm Cold starts -148 dBm Hot starts -157 dBm Reacquisition -160 dBm
Anti-jamming	Active CW detection and removal Onboard band pass filter
Anti-spoofing	Advanced anti-spoofing algorithms
Memory	Flash
Moving base	For attitude sensing and heading applications
Supported antennas	Active
Interfaces	micro-B connector (USB)
Protocols	NMEA, RTCM v. 3.3
Package	91 x 160 x 53mm aluminum housing with DIN mount

Environmental data, quality & reliability

Operating temp.	-40 °C to +85 °C
Storage temp.	-40 °C to +85 °C
RoHS compliant	(2015/863/EU)
Green	(halogen-free)
EU Radio Equipment Directive compliant	2014/53/EU
Qualification according to	ISO 16750
Manufactured and fully tested in	ISO/TS 16949 certified production sites
High vibration and shock resistance	

Electrical data

Supply voltage	5 V through micro USB Cable (1m length max.)
Power consumption	68 mA at 3.0 V (continuous)

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SSR Correction Service:

RTK Receiver, RTK-SSR Corrections Receiver and 1 year unlimited data plan and RTK-SSR correction service, all pre-configured and ready to use out of the box.

Literally just plug, wait 1 minute, and enjoy centimeter level precision. No need of base station nor complex configuration steps.

It includes:

- Software upgrade for 4G NTRIP Client including RTK-SSR engine
- 1x SIM card with 1-year subscription
- 1-year subscription to SSR service

You will be able to enjoy plug-and-place centimeter accuracy in Europe and Continental North America from any area with cellphone coverage.

SSR technology

Also called PPP-RTK, State Space Representations provide RTK-like performance over large areas

Coastal waters coverage

Go up to 20km from the coastline while keeping centimeter accuracy in your marine application.

Centimeter level precision

Sub 4 centimeter CEP accuracy in all the coverage area, no matter how far away from the base station.

Literally plug & play

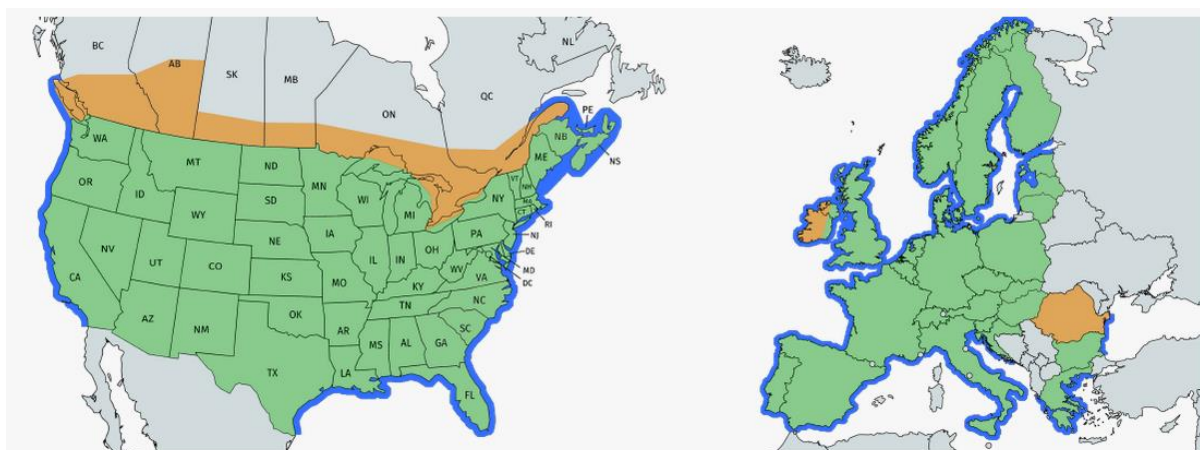
Forget about making complex base station installations, setting up NTRIP credentials, or minimum quantity requirements. Literally just plug and wait for your receiver to reach RTK FIX.

Subscribe to get updates!

Multi-band & Multi-constellation

GPS: L1 C/A, L2P, L2C

GLONASS: L1 C/A, L2 C/A



Figur 1 In all territory marked in green and up to 20km from the coastline marked in blue. Upcoming regions marked in orange.