

RTK Bridge-C

Providing access to Network RTK Corrections



RTK Bridge-C

The Intuicom RTK Bridge-C™ is a field ready network device enabling Network RTK corrections to be utilised by a broad variety of Precision GNSS products including land survey instruments, machine control and precision agriculture equipment. The RTK Bridge can replace your GNSS base station and extend Network RTK corrections to projects and areas where these corrections may not otherwise be available or easily accessible.

Basic Operation

The RTK Bridge interfaces to the Internet via an embedded cellular modem and automatically logs on to real-time network servers. The RTK Bridge establishes connectivity, authenticates, and then receives the appropriate RTK corrections for a variety of precise positioning applications.

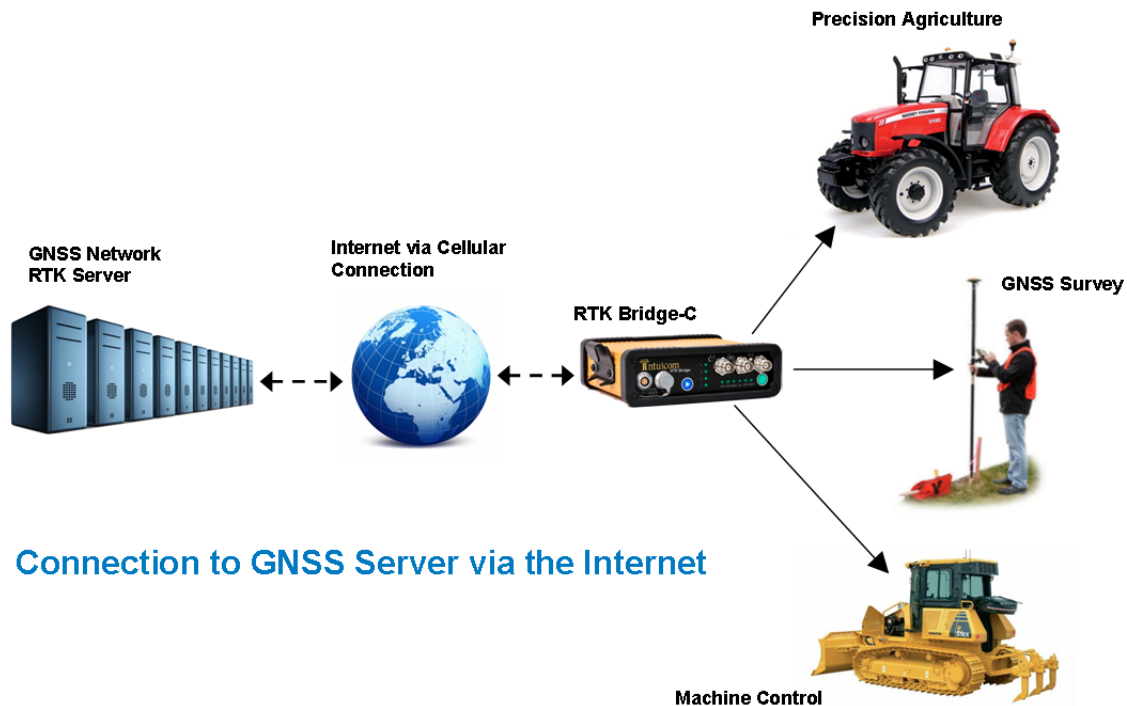
Easy Setup and Operation

It takes only minutes to get from the box to the field. Simply have the access parameters along with the message type you wish to receive, and you can get started!

Embedded Radio Options

The RTK Bridge offers the option of an embedded UHF radio to transmit network corrections to equipment that rely on radio connectivity. The RTK Bridge-C is also able to be used with a third-party or legacy radio system.

The RTK Bridge has demonstrated best-in-class performance for connection to TopNET+ Real-Time Networks, and supports all of the current correction formats including RTCM 2.x, RTCM 3.x, CMR & CMR+ as well many more.



Connection to GNSS Server via the Internet

Key Features

- Provides Wireless Connectivity to Network RTK corrections
- Extends cellular network coverage
- Options for GSM / EDGE / GPRS and CDMA
- Replaces the need for RTK Base stations
- UHF (403-470 MHz) embedded radio options
- Waterproof and Industrial hardened
- Extended temperature range: -30°C to +75°C
- In addition to Topcon®, RTK-Bridge-C is also compatible with Trimble®, Leica, Magellan®, Case IH, AgLeader®, and many other manufacturers

Specifications

Enclosure	Ruggedised Aluminium
Environment Rating	IP66
Dimensions	167mm x 143mm x 53mm WLH
Weight	992g
Operating Temperature	-30C to +70C
Power (@12vDC)	5W to 18W (config. dependent)
Input Voltage	12—24vDC
Connectors	
RF	TNC (Female)
GPS	TNC (Female)
Modem	TNC (Female)
Data Interface	2 x RS232 (LEMO)

Embedded Radio

Frequency Range	403—470MHz (UHF)
Transmitter	
Output Power	100mW to 1W (+30dBm)
Link Rate / Modulation	9600 / 19200 4 Level FSK
Channel Spacing	12.5 / 25KHz
Protocols	Pacific Crest, Satel, TrimTALK™
Error Corrections	Forward Error Correction