



YOUR OWN RTK

Become an RTK service provider!

Are you considering operating your own RTK service?
Alberding GmbH would like to help you.

Your Base Station



Set up your own RTK base station. We provide you with state-of-the-art GNSS hardware and assist you with the installation, receiver configuration and station coordination procedures. On-site system installation takes half a day.

Your Ntrip Caster



Install the Alberding Ntrip Caster software on a local PC or a central Internet server and connect your base station. Convert your input data into various industry standard formats. Distribute your RTK corrections via the Internet. Manage and monitor your users and data streams through a web interface.

Your RTK service



Start your cm accurate RTK correction service. RTK rovers can access the corrections via mobile Internet connection. RTK fixed status is reached in just a few seconds. There is no need for repeaters. Install or integrate more base stations to expand your single-station system into a regional cluster.

The Alberding RTK solution

HARDWARE INDEPENDENCE

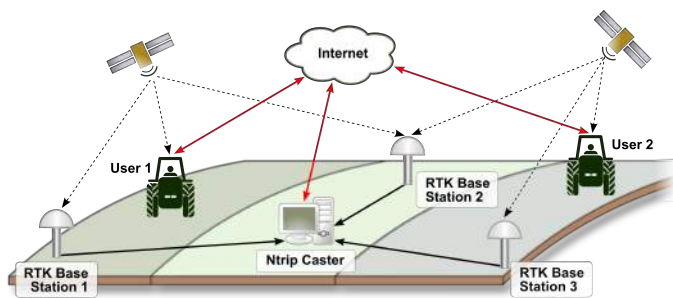
Alberding GmbH is an independent German GNSS software development company. Our solutions work with any high-quality GNSS receiver hardware. Whatever colour your RTK base or rover receiver is, we will be able to help you set up your own RTK service.

You don't have your base station yet?

No problem. We can provide you with geodetic quality GPS+GLONASS reference receivers and antennas.

RTK CORRECTION TRANSMISSION VIA THE INTERNET

Measurement data of one or more RTK base stations is transferred online to a server computer in real time. In the heart of the solution is the Alberding Ntrip Caster software running on the server. The Ntrip Caster manages the incoming data streams, converts the data into standard formats (RTCM 3.x, CMR+,...) and makes the corrections available to download for a number of simultaneously connected users. Customers receive password-protected access to the service through mobile Internet connection.



Internet-based data delivery allows the RTK rovers to operate further away from the base stations without having to install radio repeaters.

NEAREST BASE STATION SELECTION

Users can either decide to download the RTK corrections of a manually selected base station or the nearest active station is automatically selected for them, based on their actual position. The Alberding Ntrip Caster software supports user position input in NMEA GGA format. The "nearest base option" is particularly interesting for agricultural enterprises and farmers' co-ops.

STREAM MONITORING

In addition to RTK data distribution, the Alberding Ntrip Caster can also monitor the availability of the data streams and alert system operators in case of failures (e.g. Internet connection interruptions) via email or SMS messages. Software configuration and monitoring is carried out through a web-based graphical user interface.

All	Offline	Online	Warning
78	6	72	1

CMRP_ADAMSBACK	CMRP_ANNAW	CMRP_ARLI	CMRP_ASTOR	CMRP_BLANDIN	CMRP_BROOK
CMRP_DI	CMRP_FALLS	CMRP_FERG	CMRP_FRED	CMRP_BRUND	CMRP_HAV
CMRP_JAIN	CMRP_JANH	CMRP_JAWA	CMRP_LBACD	CMRP_ILINDIS	CMRP_OWVA
CMRP_MONTI	CMRP_NEUHALL	CMRP_OWAT	CMRP_OWATBACK	CMRP_PELLA	CMRP_PETER
CMR_PARKS	HWID0013	HWID0015	HWID0017	JD_BOST	JD_BUFF
RTCM3_ADAMS	RTCM3_ARLI	RTCM3_BROOKLYN	RTCM3_CHARL	RTCM3_CONROY	RTCM3_DEW
RTCM3_OWVA	RTCM3_LAPOR	RTCM3_MAR	RTCM3_MONTI	RTCM3_NEUHALL	RTCM3_OWAT
RTCM3_ZEARING	SWITCH	TESTBASE1	TESTBASE2	TESTBASE3	TESTBASE4

ONE SYSTEM - MULTIPLE SERVICES

The Alberding Ntrip Caster software allows the system administrator to give different levels of access to the web interface. Subadmins can add and manage their own data streams and users. The same Ntrip Caster can be used by a

number of station operators to provide independent RTK services to their clients.

RTK FIXING STATUS MONITORING

For billing and statistical purposes the RTK service provider receives information about the connection and initialisation time of the individual customers. In the "Map" module the position of the currently connected users is displayed. The RTK fixing status of each rover receiver is indicated with colour-coded user icons.



User tracks can also be downloaded in KML format for detailed history data analysis. The KML log file contains all user positions and the corresponding quality status data for a given connection. Service operators can use this information to monitor service quality and troubleshoot user performance issues.



FAULT TOLERANT ARCHITECTURE

To increase service availability and security, a copy of the Ntrip Caster software can be installed on a second server. A special software option will make sure that the backup machine will run the exact replica of the primary server configuration at all times. The RTK service can be quickly recovered after an unexpected hardware failure. It is possible to automate the failover procedure.

ALBERDING SERVICE

Although the Alberding Ntrip Caster is easy to install and operate, you may decide to let IT professionals operate the service for you. Alberding GmbH has many years of experience in operating Internet servers and offers you to provide the RTK service on a dedicated rented server.

YOUR ADVANTAGES:

- Independence from equipment manufacturers
- Easily extendable service
- Web-based administration and monitoring
- Automatic nearest base station selection
- High service availability and reliability

Alberding GmbH

Schmiedestraße 2, 15745 Wildau, Germany
Tel: +49 (0) 3375 5250 370
Fax: +49 (0) 3375 5250 377

E-mail: info@alberding.eu
Web: <http://www.alberding.eu>