



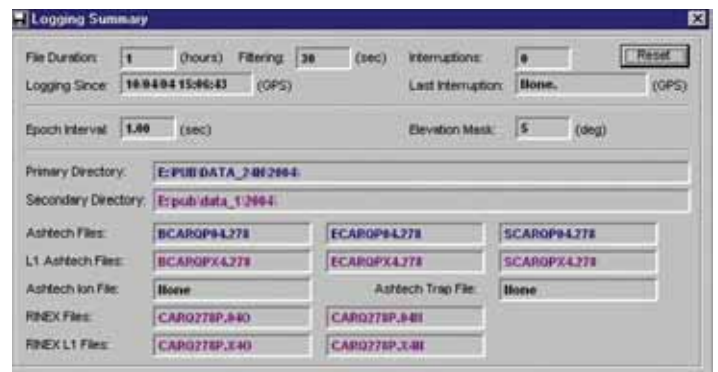
## GBSS

### CONTINUOUSLY OPERATING GPS REFERENCE STATION SOFTWARE

The Geodetic Base Station Software (GBSS) provides advanced and affordable GPS base station technology. Designed to operate in an efficient 32-bit multitasking and multi-threaded environment, the base station software logs GPS data to a PC hard drive and runs under Windows®. The GBSS from Thales is specifically designed to ensure optimal operation with the  $\mu$ Z-CGRS™ and previous Ashtech® reference station products.

From automatic sub-directory creation to a user-configurable work area, GBSS comes equipped with many innovative features. The base station software allows you to store a wide variety of GPS data in up to four separate directory structures. Supported data types include compressed or uncompressed dual-frequency GPS and GLONASS data, compressed or uncompressed single-frequency GPS and GLONASS data, ionospheric/UTC files, raw data stream, diagnostic log files, and files containing NMEA messages. All of the above files can be created simultaneously while connected to a single dual-frequency GPS or GPS+GLONASS receiver.

GBSS data files can be made available to your GPS community via FTP or a Web page. The base station software has been specifically designed to work in concert with the FTP and Web page utilities that come standard with the Windows NT Server. This powerful combination and the multiple directory architecture allow you to provide the right GPS data to each subset of users. For example, dual-frequency compressed data files can be made available in the primary directory for land surveyors, whereas single-frequency GPS data might be placed in the secondary directory structure for GIS users.



The Logging Summary window shows which files are currently being recorded, as well as information about file paths, the number of interruptions and other file configuration parameters.

Thales reference station products continue to raise the industry standard for high-precision continuous operation. With Geodetic Base Station Software, powerful easy-to-use reference station technology is now available. Once configured, GBSS requires minimal maintenance and can provide high-quality data every day of the year.

Please contact us for detailed information about Geodetic Base Station Software.

# GEODETIC BASE STATION SOFTWARE

## TECHNICAL SPECIFICATIONS

### Standard Features

- 32-bit multitasking multi-threaded Windows architecture
- User-configurable graphical Windows environment
- Full user control over file length
- Four separate and distinct directory structures for data storage
- Automatic sub-directory creation for file management
- Dual-frequency and single-frequency data files (from one dual-frequency receiver)
- Ionospheric/UTC output files
- Trap files (record of the raw data stream flowing from the receiver to the computer)
- Trap file playback feature
- Epoch filtering (thinning of raw observation epochs to a user-specified interval)
- Automatic data compression (using PKZIP or PKZIPC)
- User-configurable automatic file deletion option
- Active/Passive modes ('active' means command and receive; 'passive' means receive-only)
- Real-time terminal mode
- Script file upload capability (for example, initiate RTCM)

- Automatic creation of diagnostic log files
- Power failure monitoring
- Automatic connect feature (to recover from power failure)
- Verbose diagnostic messages for troubleshooting
- Plays selectable WAV files for different alert modes
- Selectable baud rate up to 115,200
- Numerous status windows (for example, Channel Summary)
- Logs GLONASS measurements
- Internet data-push capability
- RINEX outputs, including extended RINEX v2.2
- Multiple-copy support (multiple copies of GBSS can be run on a single PC)
- Post-session command line feature
- Logging session feature to record data only during specific periods.

### Receiver Compatibility

- DG14™, DG16™, G12™, GG™24, iCGRS™, MicroZ-CGRS, Z12™, Z-18, Z-FX, Z-Surveyor™, Z-Xtreme™

### Ordering Information

Product	Part Number
Geodetic Base	
Station Software	800447

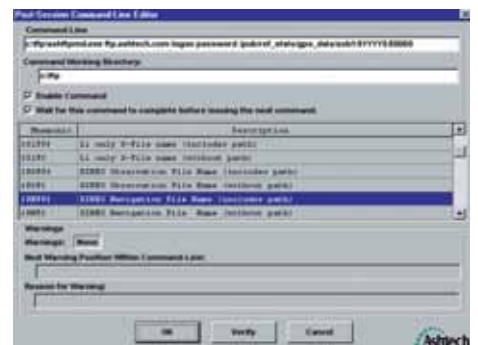
### Suggested System Requirements

- Windows® 95/98 or Windows NT/2000/XP
- Pentium®, or higher
- 16 MB RAM
- 1.0 GB hard drive

(For FTP or Web implementations, NT Server recommended)



The File Output Configuration window allows users to select types of files being created, the location of these files, file durations, epoch filtering intervals, and file deletion age.



The Post-Session Command-Line Editor extends powerful system integration tools to the GBSS user. Post-session commands can be used to download an array of remote GPS receivers, to push GPS data over the internet and even to create additional GPS data files.

### Thales

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# THALES

Thales follows a policy of continuous product improvement; specifications and descriptions are thus subject to change without notice. Please contact Thales for the latest product information.

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