

**SPECIFICATIONS**

**TRACKING SPECIFICATIONS**

**Signals tracked** L1 C/A carrier (40 channels)

**PERFORMANCE SPECIFICATIONS**

**Static accuracy** H: 3 mm + 0,8 ppm / V: 4 mm + 1,0 ppm

**Kinematic accuracy** H: 10 mm + 1 ppm / V: 15 mm + 1 ppm

**Differential code solution** 0,5 m HRMS\*

**Real-time correction source** OmniSTAR®-VBS, WAAS/EGNOS, CORS Beacon

\* Real-time position accuracy is dependent on correction service used

**POWER SPECIFICATIONS**

**Battery life** 15 hrs Beacon/OmniSTAR® on / off 18 hrs GPS only  
(Internal lithium-ion batteries)

**RECEIVER SPECIFICATIONS**

**Dimensions / Weight** 157 w x 48 h x 170 d (mm) / 1,3 kg

**Temperature** -30°C to 55°C operating / -20°C to 35°C storage

**Memory** Internal memory on-board flash capacity - 128 MB

**Waterproof rating** IP66

**ANTENNA SPECIFICATIONS**

**Differential antenna** MG-A5 - GPS, OmniSTAR®, Beacon, WAAS/EGNOS

**Dimensions / weight** w/o adapter: 142 x 142 x 88 mm / 0,8 kg

**I/O**

**External control & display unit** FC-200 field controller  
Windows CE® compatible device

**Wireless communication** Bluetooth™ version 1.3

**DATA OUTPUT**

**ASCII output** NMEA 0183, version 3.0

**Other outputs** TPS format

**Output rate** Up to 20 times per second (20 Hz)

\* all technical changes are reserved by TOPCON, 10/2006



**The Leader in Positioning Technology ...**

Topcon Positioning Systems is the worldwide leading developer and manufacturer of precision positioning equipment and offers the widest selection of innovative precision GPS systems, laser, optical surveying and machine control products.



**It's time.**

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**MULT-PURPOSE GIS MAPPING SYSTEM**



**Unmatched versatility, power and value**

- Sub-meter real-time accuracy using OmniSTAR® VBS or Beacons
- TopPAD software provides intuitive GIS data collection
- WAAS and EGNOS ready

**It's time.**

## Topcon GMS-110 is ready for the field



- Sub-meter accuracy with real-time differential correction from OmniSTAR® or Coast Guard Beacons



- WAAS and EGNOS ready



- Powerful navigation capabilities allow easy relocation of features



- TopPAD software provides intuitive data collection and allows GIS data to be carried into the field for verification and update

- Work in native shapefile format

- Supports multi-layer display of vector maps and raster images, including aerial photos and satellite imagery

- Create user defined data collection forms to match your GIS database and simplify data collection

- Internal Bluetooth for cable-free field work

- Internal rechargeable batteries

- FC-200 Windows CE data collector with bright colour touch screen

## The GMS-110 receiver system provides your choice of fieldsoftware

Topcon's GMS-110 is a compact and versatile GIS data collection and maintenance system that offers a variety of real-time correction services for submeter accuracy almost anywhere in the world at any time. The GMS-110 provides the flexibility to choose between OmniSTAR® VBS corrections, Coast Guard Radio Beacon corrections, or WAAS/EGNOS real-time differential correction services.



1 Differential antenna MG-A5

2 FC-200 Handheld/Windows CE®

3 Backpack pole

4 MAP-RT receiver

5 Backpack for MAP-RT

## TopPAD Software

A data collection program and mobile GIS from ESRI - TOPCON.

- Work in Shapefile format and bring your GIS data to and from the field without converting to a unique portable format
- Industry standard vector map and raster image display
- Ability to compare GPS data directly to geographic features in the real world adds a deeper sense of reality to the GIS database
- Multiple projections available
- Store raw GPS data for post-processing
- Configure GPS precision settings
- Build customized data entry forms



## TopSURV-GIS Software

GIS module of Topcon's popular TopSURV field survey software.

- Simple, straightforward project flow through Topcon's TopSURV interface
- Collect points, lines, and area components with multiple attributes
- Powerful navigation capabilities allow easy relocation of features
- Provides topography, coordinate geometry (COGO) and stakeout capabilities
- Topcon "Bridges the Gap" with the World's First integrated Surveying and GIS data collection solution for Windows CE®

