

## Ruggedized Field Controller



- Large Sunlight-Readable Display
- MIL-STD 810G and IP68 Certified
- 1GHz Processor
- 5 MP Camera
- 3.5G Cellular Module (optional)
- Internal GPS 2-5m Accuracy

# FC-500 Ruggedized Field Controller

## FC-500 Field Controller

The Topcon FC-500 data controller is designed for the mapping professional operating Topcon MAGNET® Field GIS or eGIS software and works with all Topcon GNSS receivers. The FC-500 has an optional 3.5G cellular modem that provides access to MAGNET Enterprise and the internet for sending and receiving data files and staying connected.

The FC-500 includes a capacitive touch screen, similar to many of the smartphones used every day. The display surface is also extremely scratch-resistant, and much more pierce resistant to sharp objects compared with other resistive displays in other products.

With the FC-500's internal "intelligent" batteries, there is no worry of ever overcharging. Typical battery life is tested to 20 hours with excellent performance under extreme conditions. Recharging is fast and gets to a 50 percent charge in as little as an hour.

The FC-500's external ports are located at the base of the unit: USB Host, USB client micro, power, and audio. The USB Host A is easily used in the field where you can quickly copy a large data file, GIS layer, or satellite image to the FC-500.

## Rotates from "Portrait" to "Landscape"

With a single key touch, the user can change the orientation of the screen from "portrait" to "landscape" increasing visibility when viewing large maps, satellite images or photographs.



## Built to Survive

In addition to IP68 certification, which protects against dust and allows the unit to be waterproof up to one meter, the FC-500 is independently certified to MIL-STD 810G standard, and can operate in temperatures from -22°F to 140°F.



## Fast 1GHz Processor

Windows Mobile® 6.5 operating system provides a modern operating environment and added expandability with other software applications. The 1GHz processor drives any Topcon field application software with ease.



## Built-in 5 MP Camera

A 5 MP auto-focus camera with LED flash comes as standard equipment. Store hundreds of photos on the built-in 8GB's of flash storage, and easily transfer data to your GIS or USB stick.



## Cellular Modem (optional)

The optional internal cellular modem is a global device capable of data communication with Topcon MAGNET products. Send and receive data to the MAGNET cloud, making it easy to communicate with field personnel when projects need to be updated.



## PRIMARY FEATURES

Large 4.3 in. Sunlight Readable Display

3.5G Cellular Module (optional)  
Internal GPS

1GHz Processor  
512MB RAM  
8GB Flash Storage

Built-in *Bluetooth*<sup>®</sup>  
WiFi Connectivity

MIL-STD 810G  
IP68 Certified

6 control buttons  
4-way Directional Arrow Key

USB Host (Full Type A)  
USB Client (Micro Port)  
9-pin Serial Port

Built-in 5 MP Camera



### Sunlight-Readable Display

The FC-500 features a 4.3 in. display designed for viewing in direct sunlight. The display uses a one-touch interface that is optically bonded to increase visibility.



### KIT COMPONENTS

#### Included Accessories

- Battery and Charger
- International Plug Kit
- USB Cable
- Quick Start Guide
- Hand Strap
- Screwdriver
- Stylus



## SPECIFICATIONS

### Hardware

Processor	1GHz ARM Cortex A8 i.MX53
Operating System	Microsoft® Windows Embedded Handheld 6.5
Memory and Data Storage	512MB RAM 8GB flash storage
Camera (Geo, Geo 3G):	User Accessible Micro-USB 5 MP resolution with autofocus and LED flash with video capture
Power	12/24VDC power input jack Intelligent Li-Ion battery 3.6VDC at 10600mAh

### Communication

Ports	COM1, RS-232C 9-pin D connector with 5VDC power on ring indicator, USB Host (Full A), USB Client (Micro)
Wireless Connectivity	Bluetooth® Wi-Fi 802.11b/g/n
Cellular Connectivity (Geo 3G only)	Integrated Worldwide, 800/850, 900, 1800, 1900, 2100 MHz, UMTS/HSPA+

For more specification information:  
[topconpositioning.com/fc500-gis](http://topconpositioning.com/fc500-gis)

### Topcon TotalCare

This online resource comes with real live people and expert training from Topcon University's large collection of online materials, and expert help directly from Topcon Technical Support. Access software and firmware updates, current publications, and guidance from the experts at Topcon all right from your computer or mobile device.  
[topcontotalcare.com](http://topcontotalcare.com)

### Professional GIS Support

The Topcon GIS support team is well versed in GIS to assure you are successful in using Topcon solutions with your GIS system. With your support subscription, you will receive software and firmware update notices; phone, email and web support; and friendly guidance when you need it. Contact your local dealer to order today.



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## SOFTWARE

# MAGNET

A family of software solutions that streamlines the workflow for surveyors, contractors, engineers and mapping professionals.

### MAGNET® Field GIS

A customized version of MAGNET Field for GIS data collection, update and viewing. With GIS Basic (DGPS/Post Processing) and GIS Advanced (RTK) modules available, and a direct connection to the office for easy data exchange, it will increase your GIS accuracy, efficiency and productivity.



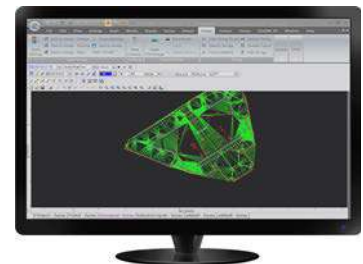
### MAGNET® Enterprise

MAGNET Enterprise is a web browser-based environment that simplifies managing field and office data in the cloud. Track assets and communicate with everyone involved on your projects. Log in from any browser for live updates. Save time and collaborate.



### MAGNET® Office

Full field data processing with MAGNET Office Tools and connectivity to your company account for quick data exchange. Purchase outright or subscribe on a monthly basis.



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