

FC-500

The new Topcon FC-500 data controller is designed for the construction professional operating the Topcon MAGNET™ Field, Site, and Layout, software as well as Topcon's Pocket 3D. The controller works with all of Topcon's GPS receivers and total stations. This handheld computer meets and exceeds all field applications. The FC-500 has an optional 3.5G cell modem that provides access to MAGNET Enterprise for sending and receiving data files

- Large sunlight readable display – 4.3 inch
- MIL-STD 810G and IP68 certified
- 1GHz processor
- 5 MP camera (option)
- 3.5G cellular module (option)
- Internal GPS 2-5m accuracy (option)

Sunlight Readable Display

The FC-500 features a 4.3 inch display designed for viewing in direct sunlight. The display uses a one-touch interface that is optically bonded to increase visibility. The glass is scratch resistant. With a single key touch, the user can change the orientation of the screen from "portrait" to "landscape" to increase visibility when viewing maps or drawings.

MIL-STD 810G and IP68 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 degrees F to 140 degrees F

Fast 1GHz processor

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

Built-in 5 MP camera

A 5 MP camera with auto focus comes with LED flash as standard equipment. That is why we built-in 8Gb of flash storage. Store hundreds of photos, and if you fill the memory, transfer data easily to any computer or USB stick. The System has Geotagging that will embed and emboss photos with the time, date and the GPS position.

Cellular Modem (optional)

The optional internal cellular modem is a global device capable of data communication with Topcon's MAGNET products to send and receive data to the MAGNET "cloud," making it easy to communicate with field crews when projects need to be changed or if important data is required back in the office.

Internal GPS (optional)

The GPS option provides a navigational functionality that is capable of accuracies in the 2-5 meter range. The receiver is a 32channel, allinview tracking up to 1Hz. This internal GPS can be used for navigation or general positioning. This GPS position can be used with MAGNET software to place your position displayed on Bing™ Maps overlay.

Bluetooth and WiFi

Bluetooth and WiFi come standard, with no need for expensive upgrades.. Also standard is a way to turn them off to conserve battery power when the services are not needed.. With Topcon's other advanced systems coming to market with built-in WiFi, this form of data exchange will become more and more important. Use your device in any "hotspot" location to surf the web, check weather, e-mail, send to and receive files from the office, etc.

Removable battery packs.

There is one Li-Ion battery packs with 10600mAh. Typical battery life is 20 hours. With Topcon's "intelligent" batteries, there is no worry about ever overcharging. To recharge the battery takes only two to four hours. You can



FC-500 Specifications

Computer

CPU	1.0 GHz ARM Cortex A8 i.MX53 processor
Operating System	Microsoft® Windows Embedded Handheld 6.5
Memory	512 MB RAM 8 GB Flash Storage 1 user accessible Micro SD/SDHC slot, supporting up to 32GB of storage

Display	Active viewing area: 4.3" (109 mm) WVGA LCD TFT (800x480) High outdoor visibility backlit LCD Support for portrait or landscape orientation
Keypad	Backlit, four-way directional buttons
Intergrated Sensor	
GPS	32 GNSS tracking channels Integrated real-time SBAS receiver (WAAS, EGNOS,
Horizontal Accuracy	2 meters
Built In Camera	5 Megapixels, Autofocus Camera
Enviromental	
Dust and Waterproof	IP68, MIL-STD-810G for water, humidity, sand and dust, vibration, altitude, shock, and temperature
Drop Test	Shockproof: multiple drops from 4'-5' to concrete
Physical	
Dimensions	3.89" wide x 7.45" length x 1.68" thin (91 mm x 184 mm x 38 mm)
Weight	1.3 lbs (590g)
Battery	Intelligent Li-Ion battery 3.6VDC @ 10600mAh, 38.16 Whr
Battery Life	20 hours
Recharge Time	2 hours
Ports	
USB	Host (Full A), USB Client (Micro)
COM1	RS-232C 9-pin D connector with 5VDC power on Ring Indicator
Power	12/24VDC power input jack
Audio	3.5mm audio jack, supports speaker/microphone or stereo output (pin detect)
Wireless	
Bluetooth	2.1 +EDR, Class 1.5 with operating range
WIFI	802.11b/g/n
Cell Modem	Integrated Worldwide, 800/850, 900, 1800, 1900, 2100 MHZ, UMTS/HSPA+, 3GPP