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[[]] (GCS [[] ?) [[]] ,[[]] [[]]



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[[]] GCS[[]] ,[[]] .

[[]] . [[]] [[]] [[]] , APM[[]] 2, MAVProxy [[]] , [[]] , UgCS(UgCS)
[[]] , and LOGOS. For Tablet/Smartphone there are QGroundControl, Tower (DroidPlanner 3),
MAVPilot, AndroPilot and SidePilot that can be used to communicate with ArduPilot.

The decision to select a particular GCS often depends on your vehicle and preferred computing platform:

- **Ready-to-fly** users may prefer the portability and ease of use of *QGroundControl*, or another GCS running on a tablet or phone.
- **DIY/Kit** users and developers often have to access configuration and analysis tools, and would therefore need (at least initially) *Mission Planner*, *QGroundControl*, *APM Planner 2* or another more full-featured GCS.
- **Code Developers** will appreciate some of *MAVProxy*'s features.

Desktop GCSs

Mission Planner

Full featured and widely used GCS.

- **Platform:** Windows, Mac OS X (Using Mono)
- **Licence:** [Open source](#) (GPLv3)

[../../images/MP-FP-Screen.jpg_](#)

- [Download](#)
- ****Wiki****
- [Support Forum](#)
- [Issues List](#)
- [Source Code](#)

APM Planner 2.0

A GCS for use on macOS, Linux & Windows platforms. It has a smaller user base and a reduced feature set when compared with others.

- **Platform:** Windows, macOS, Linux
- **Licence:** [Open source](#)
(GPLv3)

[../../images/planner2_choose_agcs.jpg_](#)

- ****Wiki****
- [Support Forum](#)
- [Issues List](#)
- [Source Code](#)

MAVProxy

Linux GCS often used by code developers. Primarily a command line interface with graphical modules for map and mission editing. Written in Python, and extensible via python modules.

- **Platform:** Linux
- **Licence:** [Open source](#) (GPLv3)

../././images/mavproxy_linux.jpg_

- ****Wiki****
- [Issues List](#)
- [Source Code](#)

QGroundControl

QGroundControl works with MAVLink capable autopilots including ArduPilot. It's unique among the GCS offerings as it runs on all platforms desktop and mobile.

- **Platform:** Windows, Mac OS X, Linux, Android and iOS
- **Licence:** [Open Source](#) (GPLv3)

../././images/QGroundControlTabletImage.jpg_

- [Website](#)
- [Support Forum](#)

UgCS - Universal Ground Control Station

Universal and easy to use ground control station with a 3D interface. Supports APM, Pixhawk as well as drones from other manufacturers such as DJI, Mikrokopter and more. Intended for enthusiasts as well as professional users.

It is capable of communicating with and controlling multiple drones simultaneously.

UgCS supports multiple map layers as well as different map providers. Some of the features of UgCS include - DEM Import, ADS-B transponder and receiver support, Click & Go mode, Joystick mode, image geotagging and video recording. UgCS also comes with a telemetry player, allowing the replay of all flights.

UgCS comes with in-built no-fly zones around all major airports as well as the ability to create custom no-fly zones.

Supports multi-node installation, meaning that it is possible to connect multiple pilots with UgCS laptops in the field to a central ground control server.

- **Platform:** Windows, Mac OS X, Ubuntu
- **Licence:** Proprietary with a free licence available as well (UgCS Open)
- [UgCS Website](#)
- [DIY Drones Group for UgCS Users](#)
- [UgCS Github Repository](#)

LOGOS

GCS designed to streamline the planning of complex missions that include area scanning, taking photos, & videos. It provides a 3D view mode, binding of physical structures and an in-built simulator that helps to better visualize planned missions.

- **Platform:** Windows
- **Licence:** Proprietary. Can be used freely, but advanced features are not available without purchase.

[../../images/LOGOS_GCS.png](#)

- [Download](#)
- [Website](#)
- [Youtube](#)

Mobile GCSs

QGroundControl

QGroundControl works with MAVLink capable autopilots including ArduPilot. It's unique among the GCS offerings as it runs on all platforms desktop and mobile.

- **Platform:** Windows, Mac OS X, Linux, Android and iOS
- **Licence:** [Open Source](#) (GPLv3)

[../../images/QGroundControlTabletImage.jpg](#)

- [Website](#)
- [Support Forum](#)

Tower

Tower (a.k.a. "DroidPlanner 3") is an Android GCS for phones and tablets. It is intended for end users and enthusiasts, and includes features like follow-me, "dronies" (i.e. "selfies" but taken with a drone) and special missions for 3D mapping.

- **Platform:** Android Phones and Tablets
- **Licence:** [Open source](#) (GPLv3)

[../../images/tower_droid_planner3_structure_scan.jpg_](#)

- [Download Tower](#) (and [3DR Services](#)) from Google Play.
- [Android compatible hardware list](#)
- [Wiki](#)
- [Support Forum](#)
- [Issues List](#)
- [Source Code](#)



Legacy versions ([DroidPlanner 2](#) and [Droid Planner 1](#)) can also be downloaded from Google Play.

MAV Pilot 1.4

A GCS in your pocket that supports predominantly ArduPilot autopilot on iPhone/iPad. Supports for Plane, Copter & Rover vehicle types

See website for how-to on how connect it to your autopilot

- **Platform:** iPhone, iPad
- **Licence:** Proprietary

[../../images/MAVPilot_1.4.png_](#)

- [Release announcement Blog & Discussion](#)
- [Support Blog](#)
- [Support Forum](#)
- [iTunes Store link](#)

SidePilot

ArduPilot compatible GCS that runs on iPhone/iPad.

See website for how-to on how connect it to your autopilot

- **Platform:** iPhone, iPad
- **Licence:** Proprietary

[../../images/sidepilot.jpg](#)

- [Release announcement Blog & Discussion](#)
- [Website](#)
- [Support Forum](#)
- [iTunes Store link](#)

AndroPilot

Android GCS intended for enthusiasts.



AndroPilot is not under active development. Its suitability for newer FW needs to be confirmed.

- **Platform:** Android Phones and Tablets
- **Licence:** [Open Source](#) (GPLv3)

[../../images/Andropilot_-_Android_Apps_on_Google_Play.jpg](#)

- [Downloads \(Google Play\)](#)
- [Android compatible hardware list](#)

- [Wiki](#)
- [Support Forum](#)
- [Issues List](#)
- [Source Code](#)

Additional GCS hardware

Android

For Android devices, you will need:

- Android based tablet or smartphone. *QGroundControl* can utilize Bluetooth, WIFI, or USB connectivity to the autopilot from the phone. For USB the device must be able to act as a USB host (OTG).
- A connectivity method to vehicle's autopilot:
 - **SiK Telemetry Radio System ** or other radio telemetry (**common-telemetry-landingpage)** with OTG cable can be used for long range, in-the-air, connectivity to a similar vehicle telemetry unit.
 - WIFI (**common-esp8266-telemetry**)
 - Bluetooth (**common-mission-planner-bluetooth-connectivity**)
 - for benchtop USB connectivity, a USB OTG cable (typically less than \$2 on [ebay](#) and [Amazon](#)).
 - Some other telemetry method (**common-telemetry-landingpage**)

iOS

For iOS devices, you will need:

- iOS Based devices such as an iPad or iPhone. If running iPad, the cellular version is recommended for better GPS support.
- Wifi or Bluetooth LE link to the Drone
- Bridge Connection to a ****SiK Telemetry Radio System **** via Wifi or Bluetooth LE

“ See iOS App Vendors for more details.

Desktop PCs (Windows/Mac/Linux)

For Desktop devices you will need:

- A USB cable, BT module, WIFI adapter, or other connectivity means as listed here (**common-telemetry-landingpage**)

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 *ArduPilot Copter*  [copywiki destination="plane,copter,rover,blimp,sub"]  [CC BY-SA 3.0](#)

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