



Flight Control Solution For:



Flight Control Solutions > Ground Control Station

GCS03 - Modem

The Modem is an essential part of any system based on a UAV Navigation autopilot.

Key Features:

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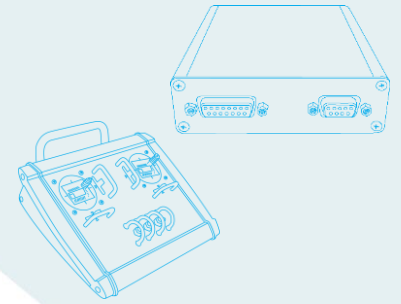
Functions:

The Modem is an essential part of any system based on a UAV Navigation autopilot.

The Modem connects via Ethernet/Serial to the PC and is available in two different versions:

- GCS03: with internal 900 MHz radio (up to 100 km range).
- GCS03-NR: (no radio) for connection to an external datalink.

The Modem is supplied in a rugged, aluminium case.



The Modem provides the following features:

- Bi-directional communications between Visionair (on the ground) and the onboard Autopilot (in the air).
- Connection point in the system for the Joystick to allow manual override by an External Pilot if necessary.
- GPS (to locate the GCS; the position is shown in the top right corner of the GCS Config Tool window). GPS information is also integrated to steer a pan and tilt antenna if it is used.
- Low-level message integrity verification.
- Built-in standby battery in case of external power failure (old version only).



Technical Specs:

MANUAL CONTROL	
For fixed wing aircraft, manual control acts on elevator, aileron, rudder and throttle.	
For helicopters, manual control acts on cyclic, collective pitch, rudder and throttle.	
Control rate	50 Hz
Resolution	1 mrad
Number of channels	4
COMMUNICATIONS (900 MHZ VERSION)	
Baud rate	115.2 Kb/s (full duplex)
Range	100 km
Frequency	902 - 928 MHz
Method	Freq Hopping Spread Spectrum
Simultaneous, multiple UAVs	Yes
ANTENNA STEERING	
PWM rate	50 Hz
PWM signal	1 ms to 2 ms high, 1 μ s steps

ELECTRICAL	
Supply (unregulated)	9V to 36V DC
Power consumption	2.0W
MECHANICAL / ENVIRONMENTAL	
Size (mm, H x W x L)	30.0 x 103.0 x 123 mm
Weight	196g
System Connector	Ethernet / DB-9 female
Joystick connector	DB-15 female
Power connector	Female 2.5 mm barrel jack (positive polarity)
Radio link RF connector (GCS03-NR version only)	SMA female
GPS RF connector	SMA female
Temperature range	-40°C to +85°C
GPS	
Channels	12
Differential	Yes



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