

Common GCS

Small Tactical Ground Control Station

Small, modular, and expandable for your most demanding expeditionary missions.



UNMANNED AIRCRAFT SYSTEMS

KEY BENEFITS & FEATURES



CGCS is designed to support both Insitu and non-Insitu unmanned aircraft systems (UAS). It's modular, scalable, and interoperable to minimize your footprint for expeditionary land and shipboard operations.

Open systems design

Supports all Insitu platforms and ground control software and is expandable to non-Insitu UAS. Uses industry-standard protocols, hardware, and power sourcing for procurement flexibility, simplified cabling configuration, and operational compatibility.

Modular

The minimal component set of a laptop, radio and omni antenna can be expanded with a variety of options for enhanced mission flexibility.

Scalable and expandable

Multiple radio and antenna options enable three system configurations: backpackable short-range; vehicle-mountable mid-range; and long-range with expeditionary tripod antenna. Supports different frequency bands and waveforms.

Expeditionary

Small and lightweight requiring only a 1-person carry. Pack in and pack out quickly, and fly from stationary or moving platforms.

Environmentally rugged

Operates in extreme temperatures, from -32C to +49C and supports operation with and without gloves. Hardened for harsh EMI environments.

Operational mobility

Launch multiple UAV types from a single hub and transfer to a mobile spoke/forward operator, all using the same GCS hardware.

Backward and forward compatible

Bridges new and existing UAS, reducing operational personnel, equipment and training costs.



1.3 MILLION
FLIGHT HOURS

50
GLOBAL SITES
OF OPERATION

MODULAR
FAMILY OF
SYSTEMS

SERVICES,
ACQUISITION
AND FMS

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Multiple configurations for ultimate flexibility



SPECIFICATIONS



Medium Range

Packs in 2 cases. Integrates easily into ground vehicle for dynamic, on-the-move land and maritime operations.



Long Range

Expeditionary tripod antenna for land and maritime environments.

SOFTWARE/AIRCRAFT SUPPORT

- I-MUSE, ICOMC2, INEXA
- Insitu & STANAG 4586 compliant aircraft

OPERATIONAL RANGE CONFIGURATIONS

- Short-range antenna: >17km (9 NM)
- Medium range antenna: 55 km (20+ NM)
- Long range antenna: 130 km (70 NM)

RADIO OPTIONS

- FreeWave, Bandit, Wave Relay 5

FREQUENCY BANDS

- S-band, C-band, L-band

INDUSTRY-STANDARD PROTOCOLS AND HARDWARE

- STANAG 4586, 4609, 3607
- IEEE 802.3ab (1000BASE-T Ethernet)
- Motion Imagery Standards Board (MISB)
- Cursor on Target (CoT)

POWER AND COMMS

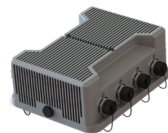
- Power input: 20–35V DC
- Max RF output: 1W
- Range of RF output:
 - L-band payload 1.625–1.85 GHz
 - L-band C2 1.35–1.39 GHz
 - S-band 2.2–2.5 GHz

▼ BASE COMPONENTS ▼



Operator Workstation Laptop

Scalable end-user device. Single operator for multiple aircraft.



Device Control Unit (DCU)

Software version depends on air vehicle.



Fiber Extension

Optional kit. Up to 500 m. between devices.



GPS Enclosure

Standard and SAASM.



Radio Handhelds

Multiple options.

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