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

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 -32°C to +49°C 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.

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.
Common GCS
Small Tactical Ground Control Station

Multiple configurations for ultimate flexibility

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

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.

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.