

# UC-LITE Universal Controller



One Controller. Infinite Possibilities.

QinetiQ North America's UC-LITE (Universal Controller - Lightweight Interoperable Tactical Equipment) is a common controller that controls all battalion level of unmanned ground vehicles, unmanned aerial vehicles and unattended ground sensors such as such MTRS MK-2, CRS-I, SMET and Class I UAS Raven and Puma.

### Flexible and ergonomic design

The UC-LITE was designed towards the CRS-I Universal Controller Compliance. This universal controller features an ergonomic design and is compact and lightweight. The interface is available in single and dual screen and with an integrated or standalone radio. UC-LITE's IOP V2 compatible modular design make it easily adaptable and reconfigurable for multiple operation modes in various field application environments.

In a multi-controller, multi-RAS platform configuration, the UC-LITE can:

- Detect and monitor all RAS platforms within the network
- Facilitate inter-operator collaboration
- Seamlessly take active control, and/or transfer control of a RAS platform
- Control and monitor multiple UxS platforms simultaneously



### FEATURES/BENEFITS

- Compact and lightweight
- Adaptable
- Reconfigurable
- IOP V2 compatible modular design
- Fully integrated with MOCU4 UTC software
- Certified for Class-I UAS operation
- Capable of controlling large unmanned vehicles such as SMET, RCIS and operating weaponized payloads

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The UC-LITE incorporates critical safety design features in accordance with MIL-STD-882E. This enables the UC-LITE to be used as the primary controller for large unmanned vehicles such as SMET, RCIS, and also for operating weaponized payloads.

The UC-LITE has participated in several government demonstrations and technology evaluation events in 2017, including NAMC UTC MOCU4 Spiral 3, Spiral 4 and the Robotic Enhancement Program (REP) 17.1 UTC Limited Objective Evaluation (LOE) at Ft. Benning.



#### Packaging / Wearability:

- Single pocket system, single cable operation, hot swappable batteries
- Conformal battery compatible
- Total weight 2.5 lb
- Dimension 12" x 7.5" x 2.3"

#### Environmental Performance:

- MIL-STD-810G Compliant, IP65, > 1-meter drop
- Operational Temperature Range -5 to 120F
- Storage Temperature Range -20 to 160F
- Operation Endurance > 3 hours

#### IOP Compliant I/O Ports

- Gigabit Ethernet, USB 3.0, Ext. Power In, Audio Headset Port

#### Hand Controller Input / Primary Display:

- 7" WXGA 1280x 800, 10-point capacitive gloved multi-touch, 500 nits, daylight and NVDreadable
- Button layout ideal for multi-UxS control, safety critical features (E-Stop, Deadman Trigger)
- MOPP IV compatible
- Optional 7" LCD 2nd display

#### Radio Communications

- IP Radio Agnostic, MANET (Mesh) radio compatible
- MPU5, AeroVironment pocket DDL

#### Processor Core:

- Intel Core m5-6Y57 2.8GHz, 4MB Cache, 8GB SDRAM, 256 GB SSD, Wifi/BT/GPS

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