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KUTTA®
Technologies for earth and air®

Rugged Systems

UGCS / KRC

4586 Interoperability and Open Architecture Redefined...

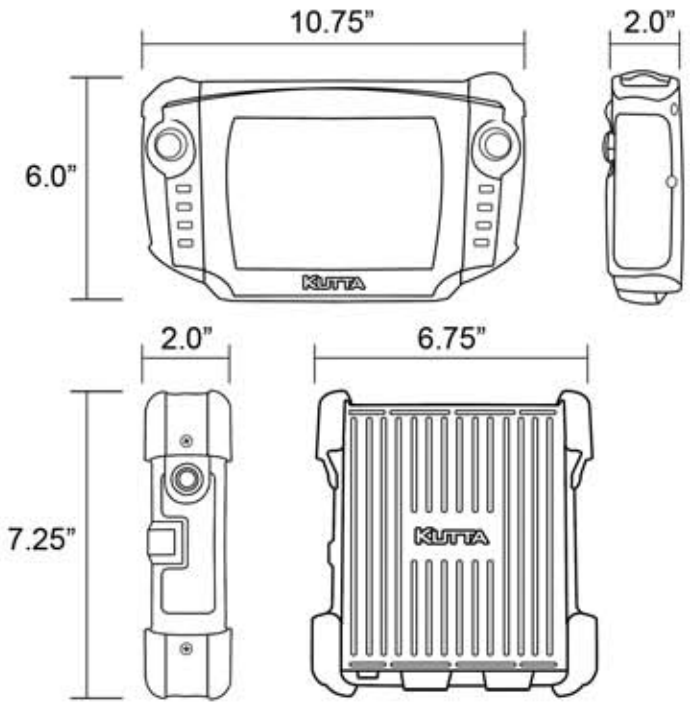
The UGCS Handheld Controller and Kutta Rugged Computer (KRC) are designed to provide embedded computing support for challenging applications, including: Unmanned Aerial Systems (UAS), manned aircraft, rugged ground vehicles, industrial environments and dismounted soldiers.

MIL-STD-810

RTCA DO-178C

Watch Video of the Common Control System

UNIFIED GROUND CONTROL STATION - UGCS



Handheld Controller
- 6.5" Sunlight Readable Touchscreen – 1000 nit
- Low-Light Night Vision (NVIS) Controls
- 1024 x 768 Resolution (Supports 720 HD)
- Redundant Hall Effect Joysticks
- Watertight Pushbutton and Trim Switches
- Unit Weight: 2.5 lbs

Power
- 2557 Battery - Lithium-Ion (4 Hours of operation*)
- 2590 Battery - Lithium-Ion (8 Hours of operation*)
- External Line Power Configurable
  *Hot-Swappable - Internal Hold-Over Battery (5 mins)

MIL-STD-810 & MIL-STD-461

• High Temperature:	+49C / +120F
• Low Temperature:	-31C / -23F
• Altitude:	15,000 ft
• Decompression:	8,000 to 15,000 ft in 15 sec
• Rain:	15 Minutes
• Freeze / Thaw:	3 Cycles
• Temperature Shock:	+49C / +120F to -31C to -23F
• Humidity:	10 Days
• Salt / Fog:	96 Hours
• Fluid Susceptibility:	Jet Fuel - JP-8
• Dust & Sand:	90 Minutes
• Vibration - Performance:	Method 514.6C-5 – Category 12
• Vibration - Operational:	Method 514.6C-5 – Category 7
• Loose Cargo Vibration:	Method 514.6 – Procedure II
• Radiated Emissions:	Pass
• Radiated Susceptibility:	Pass

Kutta Rugged Computer - Fanless Options:
- Intel® Core™ i7-4650U (2x1.70GHz, GT3)
- Intel® Core™ i5-4300U (2x1.90GHz, GT2)
- Intel® Core™ i3-4010U (2x1.70GHz, GT2)
- 512 GB of Solid State Hard Drive
- 16 GB of energy-efficient DDR3L RAM
- Max Power Draw of 17W
- Wide-Range (8.5 - 20V) Power Supply
- Intel® Graphics Controller Chipset
- GPS Receiver (L1) - High Sensitivity Navigation Engine
- Designed to MIL-STD-810 & MIL-STD-461
- OS: Windows® 8, Windows® 7, WE8S, WES7, Linux, VxWorks
- Modular Lightweight Load-carrying Equipment (MOLLE)
- VESA Mounting Interface Standard (MIS)
  75x75mm & 100x100mm
- Unit Weight: 2.5 lbs

Input / Output
- 1x USB 3.0
- LAN / Ethernet - 10/100/1000 Mbit
- HDMI
- Display Port
- Serial
- 3x USB 2.0
- Audio Intel® High Definition Audio
- Audio In
- Mic In
- Audio Out