

## Mini Controller PRO 7"



### MCU-Mini Controller-PRO

The MCU-Mini Controller PRO is "All in One" ruggedized Tactical Mobile Controller / GCS (Ground Control Station) designed to support drones and robotics operation with variety of payloads. It offers various controlling options to support mission critical operations, serving enterprise & governmental sectors within unmanned applications.

MCU-Mini Controller PRO is designed to the highest standards to meet targeted applications prone to severe conditions and complex needs. It enables real-time HD video and broadband data content transmission by multiple users simultaneously.

### MCU- Mini Controller PRO Key Features:

- Built to enable mission-critical operations
- All in One Unified, with multiple elements
  - Toughpad multi-touch Tablet
  - Transceiver unit –Mobilicom, Skyhopper
  - Encrypted & secured device (optional)
  - Battery
  - Power supply & Antenna
- Customized transceiver unit, joysticks, buttons, sliders, switches & toggles
- Dual antenna & GPS location base services
- 3<sup>rd</sup> party communication units can be connected (optional)



### Product Highlights:

- Light & Compact
- IP 65: All-weather / Dust and Water-Resistant Design
- 7" Panasonic Toughpad Tablet
- Configurable multiple joysticks, buttons, sliders, toggles, switch and a fail-safe guard
- Daylight readable
- User-replaceable battery in field
- I/O interfaces to peripherals



### Tablet Specifications

Type	7" Toughpad FZ-M1 Panasonic
CPU	Intel core I5
User interface	Windows 10 Professional Linux, Android (Optional)
Display	7" WXGA 1280 x 800
Complied with all Windows based controlling software Linux & Android – optional	

### Radio & Modem Specifications

MCU-Mini Controller PRO is Compatible with all MCU and Skyhopper units	
Network Topologies	Point-to-Point Point-to-Multipoint, Relay , Mesh (Optional)
Modes of Operations	Broadcast, Multicast, Unicast Multiple users
Sensitivity	Max – 101dBm
Diversity support	MIMO 2x2 Tx & Rx diversity
Transmission Technology	OFDM, TDD
Encryption	AES128, AES256 and other options are also available for purchase (custom export control may apply)
Frequencies	2.4GHz (ISM) 900 MHz & 5.8 GHz (ISM)-optional Other frequency options available
Range	According to MCU and Skyhopper product spec
Throughput	According to MCU and Skyhopper product spec
3rd party Radio	Optional

### Dimensions (H x W x D)

	16 X 34 X 6.5 cm	6.3 X 13.4 X 2.6 inch
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### Weight

	1.8 kg	3.96 pound
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### Power

External Battery	12-19 V DC
Battery	Li-ion

### Environmental

Grade	Extended Ruggedized
Operating Temperature	Operating -20 to 50°C Storage -50 to 85°C
Humidity	5 to 95% non-condensing
Casing	All-weather IP65 Dust and Water-resistant

### Interfaces

External Interface	USB 2.0 ,Ethernet(*Optional)
Human Interface	2 joysticks, 5 buttons including one fail-safe guard, 3 sliders, 2 toggles User configurable
Full Ethernet Protocol Transparency (*)	Supported
Antenna Connector	3xSMA: 2xRF, 1xGPS

### Configuration & Management

Unit Monitoring Application	Web-Based Application
Program Interface	API, Code Lib. (Optional)