

MCU-EXTREMER 10"



MCU-EXTREMER

The MCU-EXTREMER is a professional all-in-one GCS (Ground Control Station) designed to support UAVs operations within the enterprise and governmental sectors. Its advanced human interface enables controlling the unmanned systems easily and wisely in complex situations and severe conditions.

MCU-EXTREMER is designed to the highest standards to meet all targeted application needs. It also enables real-time HD video and broadband data content transmitting or viewing by multiple users simultaneously.

MCU- EXTREMER Key Features:

- Built to enable unmanned mission-critical operations (UAV, Drones)
- Advanced configurable Human Interface
- All in One Unified, with multiple elements
 - Toughpad multi-touch Tablet
 - Transceiver unit–Mobilicom, SkyHopper
 - Battery
 - Power supply & Antenna
- Customized transceiver unit, joysticks, buttons, sliders, switches & toggle
- Dual antenna & GPS location base services (optional)
- 3rd party communication units can be connected (optional)



Product Highlights:

- ☑ IP 65: All-weather / Dust and Water-Resistant Design
- ☑ 10" Panasonic Toughpad Tablet
- ☑ Configurable multiple buttons, switches & joystick
- ☑ Daylight readable
- ☑ User-replaceable battery
- ☑ I/O interfaces to different peripherals
- ☑ Standard tripod / VESA mount



Tablet Specifications

Type	10" Toughpad FZ-G1 Panasonic
CPU	Intel core I5
User interface	Windows 10 Professional Linux, Android (optional)
Display	10" WXGA 1920 x 1200
Complied with all Windows based controlling software Linux & Android – optional	

Radio & Modem Specifications

MCU-EXTREMER is Compatible with all MCU and SkyHopper units	
Network Topologies	Point-to-Point Point-to-Multipoint Relay, Mesh (optional)
Modes of Operation	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) 900Mhz & 5.8GHz (ISM)-optional Other frequencies 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)

25 X 49 X 10.5 cm	9.8 X 19.3 X 2.6" inch
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Weight

4.6kg	10.14 pound
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Power

External	12-19V 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	IP65: All-weather Dust and Water-resistant

Interfaces

External Interface	USB 3.0 , USB 2.0, Ethernet *
Human Interface	1 joystick, 9 buttons including one fail-safe guard, 1 rocker switch ,one 5way switch User configurable
Ethernet (*)	2 lines supported
Antenna Connector	3xSMA:2xSDR, 1xGPS (optional)

Configuration & Management

Unit Monitoring Application	Web-Based Application
Program Interface	API