

## 10" Touch-P Controller



### 10" Touch-P Controller

The MCU Swarm & Fleet Panasonic Controller is "All in One" ruggedized Tactical Mobile Controller / GCS (Ground Control Station) designed to support multiple drones (Swarm & Fleet) operation with variety of payloads.

It offers various controlling and viewing options to support mission critical operations, serving enterprise & governmental sectors within security, public safety, disaster recovery and unmanned applications.

The MCU Swarm & Fleet Panasonic Controller is designed to the highest standards to meet targeted applications prone to severe conditions and complex needs in Point to Multi Point and Mesh operations. It enables real-time HD video and broadband data content transmission by multiple

### 10" Touch-P Controller

#### Key Features:

- Built to enable mission-critical operation
- All in One Unified, with multiple elements:
  - Toughpad touch screen tablet
  - Transceiver unit –MCU or SkyHopper
  - ICE Cybersecurity suite (optional)
  - Battery
  - Power supply & antenna
- Control of multiple Drones in Swarm & Fleet operational scenarios.
- Long-range Line-of-Sight Reception
- Real-time video streaming with on-screen display of video & data
- Dual receiver antenna & GPS location base services



### Product Highlights:

- ☑ Light & Compact
- ☑ All weather, IP 65, Dust & Water resistant Design
- ☑ 10" Panasonic Toughpad Tablet with Intel core i5 Processor
- ☑ Daylight readable
- ☑ User-replaceable battery in field



### 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-Touch 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) 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

This is a preliminary version of the product for early adaptors;  
specifications are subject to change.

### Dimensions (H x W x D)

Tablet	25X49X10.5 cm	9.8X19.3X2.6" inch
Extender	25X49X10.5 cm	9.8X19.3X2.6" inch

### Weight

	1.75kg	3.86 pound
--	--------	------------

### Power

External	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	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)

### Radio Configuration & Management

Unit Monitoring Application	Web-Based Application
Programmer Interface	API