# COMMUNICATION CHECKLIST FOR DRONE OPERATIONS

Use this checklist to compare connectivity solutions for live drone missions before network conditions put your operation at risk. **A reliable system should meet the following requirements:**

## 01 CONNECTIVITY & NETWORK RESILIENCE

- [ ] **Multiple Communication Pathways**
  At least three independent data pathways, so the live link holds if one network congests or drops.
- [ ] **Satellite Integration**
  Satellite connectivity that keeps the mission online when cellular is congested or out of reach.
- [ ] **Wired and Wireless Internet Flexibility**
  Both wired and wireless connections, so you can adapt to whatever each launch site offers.
- [ ] **Multi-User / Multi-Device Support**
  Handles the flight crew, ground station, and remote viewers at once without slowing the live feed.
- [ ] **Redundant Cellular Connectivity**
  Primary, secondary, and tertiary carrier options, switching to whichever has the most usable capacity.
- [ ] **Wi-Fi Broadcasting Capability**
  A local wireless network on site for pilots, ground control stations, observers, and client viewers.
- [ ] **Secure & Encrypted Communications**
  End-to-end encryption or secure transmission to protect flight data, video, and client information.

## 02 DURABILITY & PORTABILITY

- [ ] **Portability**
  Light and compact enough to move between launch sites or travel with the flight crew.
- [ ] **Ruggedized Design**
  Built for outdoor job sites, with ingress protection against water, dust, and debris.
- [ ] **GPS or Location Tracking**
  Built-in GPS for tracking units and sharing locations across launch sites.

## 03 POWER & RUNTIME

- [ ] **Extended Power Capacity**
  Runs at least 30 hours without external power, enough for long or multi-day missions.
- [ ] **Flexible Power Options**
  Accepts AC, vehicle DC, battery, and solar, so you can work sites with little or no grid power.

## 04 EASE OF USE & FIELD READINESS

- [ ] **Simplicity in Operation**
  Intuitive enough that any pilot or visual observer can run it with little to no training.
- [ ] **Field-Proven Technology**
  Tested in real-world operations. A live mission is no time to trial unproven equipment.
- [ ] **Rapid Deployment**
  Ready in minutes, not hours, so setup doesn't eat into a tight flight window.
- [ ] **Remote Monitoring & Management**
  Shows link health and power status from the ground station or a remote location.

## 05 INTEGRATION & SCALABILITY

- [ ] **Interoperability with Existing Systems**
  Works with your radios, drone platforms, ground control software, and streaming applications.
- [ ] **Scalable Deployment**
  Scales from a single-pilot job to multi-aircraft, multi-site operations.
- [ ] **Flexibility for Expanded LAN Architecture**
  Supports larger local networks, with power and internet for external peripheral hardware.
- [ ] **Network Failover Capabilities**
  Quickly stands up an alternate network that meets your security protocols if the primary goes down.

## 06 SUPPORT & COMPLIANCE

- [ ] **24x7x365 Technical Support**
  Always-on, responsive support for missions that don't keep business hours.

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