

# FirstRunner™

*Compact Rapid Deployable (CRD™) for Public Safety Communications*



## **FIRSTRUNNER™**

Rapidly deployable across incident spectrum

Easily transported on any standard vehicle trailer hitch

Lower total cost of ownership

Lower future technical upgrade costs

15 minute setup time

### **Overview**

Designed to be a complete FirstNet™ compliant 4G LTE (upgradeable to 5G) communications system, easily delivered by a single person. Quickly provides high-speed internet while establishing a local area network. Supports multiple broadband services, both wired and wireless.

### **Key Features**

- **Revolutionary Portable Transit System**
- **Goes anywhere:**
  - Off-road
  - On-road at emergency response speeds
  - Indoors including ADA-compliant doorways, most elevators/escalators and rooftops
  - Wherever a vehicle, plane, or helicopter can go
- **High-Speed Internet for All Operating Conditions**
  - Get online from anywhere in minutes
  - Provides network communications during all types of emergencies and outages
  - Auto-deploy high speed Ka-band satellite
  - Supports commercial LTE bands and FirstNet™ Band 14
  - Advanced Wi-Fi hotspot
  - Enterprise class gigabit wired networking
  - Primary secure pop-up network
  - Cellular connections

## Specifications

### Physical

- **Pod**
  - Dimensions: 21" x 59.5" x 24"
  - Material: 5052-H32 aluminum
  - Capacity: 20U Rack Space
  - Weight: 120lbs
  - NEMA 4X compliant
  - Custom powder-coated finish
- **Runner**
  - Material: 6061-T6 aluminum & 1144 Steel
  - Load Capacity: 500lbs
  - Weight: 100lbs
  - Integrated stabilizer legs
- **Brakes**
  - Dual Piston Tektro hydraulic disk brake with parking lock
- **Lights**
  - LED stop, turn and running lights
  - Yellow side-view clearance lights
  - Internal LED lights in Pod
  - External LED scene lights
- **Mast**
  - 30' integrated telescoping aluminum mast (pneumatic with hand pump)
  - Supports many antenna configurations (directional or omni)
  - May be removed and deployed remotely with included baseplate and guy lines

### Power System

- **Generator**
  - Model: Honda EU1000i
  - Watts: 1000
- **90 hour system (generator & batteries) run time under optimal conditions:**
  - 82 hours at 165W of generator and external tank run time
  - 8 hours at 165W of battery run time
- **Battery Back-up**
  - 50 Ah Li-ion battery
- **Inverter**
  - 600 W Pure Sine Wave Inverter
- **Battery Conditioner**
  - Micro-processor managed battery conditioner & power supply
- **Wall/Shore Power**
  - 50' Power Cord
- **Vehicle Power**

- **Convenience Outlets**
  - 120 VAC, 12 VDC and USB plugs
- **Grounding (Lightning Protection)**
  - Milspec Surface Wire Ground Kit (MK-2551)

### WAN/LAN Options

- **Ka Band VSAT Bandwidth:**
  - Flexible speed/data packages for different use models
  - Dynamically powered system abates smoke, dust and rain fade
  - Field upgradeable to accommodate technology improvements
- **VSAT Dish System**
  - Remote terminal deployment system with stabilizer legs
  - 100' remote terminal deployment cables included
  - Manual compass in case of GPS failure
  - First-Runner™ mounted .75 meter reflector
  - Multiple makes & models available
  - Auto-deploy, point & stow
  - Transit at emergency response speed
  - No disassembly/assembly to deploy
- **User Access**
  - Wired
  - Public Safety LTE (Band 14)
  - AT&T Commercial LTE (Band 2) & other commercial bands available
  - Wi-Fi 802.11ac
- **WAN Diversity & Failover**
  - Wired
  - Wi-Fi WAN
  - LTE WAN
  - Ka SATCOM
- **Operational Modes**
  - Transport (Stowed on vehicle trailer hitch)
  - Tactical (Mast < 15 feet, no guy wires, 5 minute setup)
  - Event (Mast 30 feet with guy wires, 30 minute setup)
- **Cellular Communications**
  - Rapidly deployable complete cell tower
  - Configured with dual 5W Small Cells. 40W Macro Cell optional
  - Supports commercial bands, Band 14 (FirstNet™), or both
- **Cellular Enterprise Router**
  - High-speed enterprise class
  - Cradlepoint AER2200 Router with cloud-based network management

- Programmable
- Dual modem capable, Band 14 modem optional
- **Multi-band Antenna**
  - MobileMark 7-in-1 antenna plus two high-gain LTE antennas for second modem
  - MIMO-LTE/Wi-Fi/GPS
- **24-Port Keystone Jack Patch Panel**
  - Fully configurable for PoE and VoIP
- **Tech Support**
  - Telephone-based support
  - 24/7/365

### Shipping Weights & Dimensions

- **Pallet**
  - Dimensions: 48" x 80" x 48"
  - Ship Weight: Approx. 700 lbs

### Optional Capabilities

- **Support for 3GPP Isolated Operations (IOPS)**
  - Ruggedized laptop providing Compact Enhanced Packet Core (EPC) Network
  - On-board application server providing Mission Critical Push-to-Talk (MCPTT) and situational awareness
- **Support for Land Mobile Radio Gateway**
  - Supports LMR and interoperability systems
  - Interoperability software application



## GENERAL DYNAMICS

### Mission Systems

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