



# TACTICAL RAPID COMMUNICATIONS KIT

## SIMPLY CONNECT

The TRaCK Box is a self-contained, ruggedized communications kit, designed to provide fast and reliable connectivity, under the harshest conditions. With this product, you can provide connectivity to your team with a flip of a switch for up to 48 hours with on-board battery power.

## VOICE. DATA. AND MORE.

Connect how, where, and when you need to with our instant communications network in a box. Organizations can connect to any WAN Service with each box built to meet your mission critical needs.

Customize the TRaCK Box with specific cellular routers, multi-band antennas, and additional features such as power ports for recharging, additional batteries, or proprietary equipment.

## KEY FEATURES

- Up to 48 hours of Battery Operation
- Single or Dual Cellular Modems
- Connect Via Any Internet Service
  - (SAT, Metro E, WiFi as Wan, Etc.)
- Optional Embedded Phone System and Universal Radio Gateway
- Rugged Built for Extreme Conditions

## INDUSTRY EXPERTISE

The TRaCK is built to withstand the wear and tear of the toughest industries and environments including emergency operations management, law enforcement, military, film production, event management, and construction.

The team at USAT has experience with every one of these industries and will help you build the perfect TRaCK Box to suit for your needs.

# Product Brief | TRaCK Box



**Optional Cell Phone Kit**



**Optional Verizon One Talk Kit**



**Standard TRaCK Box Unit**

## Datasheet | TRaCK Box

### Ericsson Cradlepoint IBR1700:\*

- Multi-carrier 4G LTE Advanced support with dual-SIM capability
- Supports Ethernet (Satellite, T1, DSL, Cable, Metro Ethernet), WiFi as WAN, and Metro Wi-Fi
- Ruggedized to ensure always-on connectivity

\*The router inside the TRaCK Box is dependent upon your needs. Originally we used the IBR1700, but there are several options, including 5G with the R1900.

### WAN:

- Dual-modem capable MC400 Slot.
- Integrated 600M LTE Advanced 600 Mbps modem with DC-HSPA+ failover Auto Carrier Selection for all North American, European, & Asia Pacific carriers)
- Includes Support for 700 MHz & Band 28 in Asia Pacific
- FirstNet Ready (Band 14)
- Five LAN/WAN switchable 10/100/1000 Ethernet ports - one default WAN
- WiFi as WAN
- Failover/Failback
- Load Balancing
- Advanced Modem Failure Check
- WAN Port Speed Control
- WAN/LAN Affinity
- IP Passthrough
- Standby

### LAN:

- VLAN 802.1Q
- DHCP Server, Client, Relay
- DNS and DNS Proxy
- DynDNS
- UPnP
- DMZ
- Multicast/Multicast Proxy
- QoS (DSCP and Priority Queuing)
- MAC Address Filtering
- STP2
- GPS Broadcast to LAN



### Power:

- DC input steady state voltage range: 9–36 VDC (requires inline fuse for vehicle installations)
- Reverse polarity and transient voltage protection per ISO 7637-2
- Ignition sensing (automatic ON and time-delay OFF)

### Power Consumption:

- Idle: 600mA@12VDC (8W)
- Typical: 1.1A@12VDC (14W)
- Heavy Usage: 2A@12VDC (24W)

### Temperature:

- –30 °C to 70 °C (–22 °F to +158 °F) operating temperature
- Includes temperature sensor with options for alerts and automatic shutoff

### Humidity (non-condensing):

- 5% to 95% operating
- 5% to 95% storage

### Ports:

- Power + GPIO (1 input/1 output)
- 20 pin GPIO
- USB 2.0
- 5 Ethernet LAN/WAN
- 2 cellular antenna connectors (SMA)
- 1 active GPS antenna connector (SMA)
- 6 WiFi antenna connectors (R-SMA)

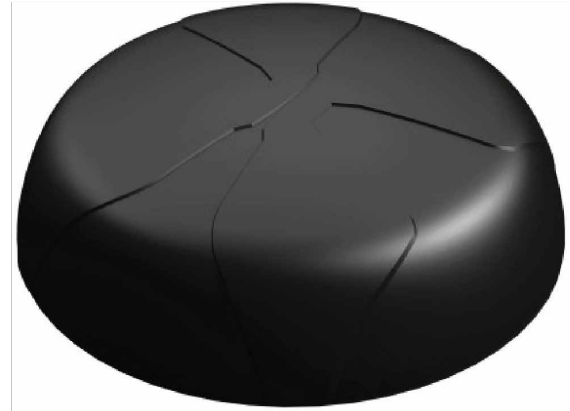
## Datasheet | TRaCK Box

### Case:

- Waterproof
- Impact resistant
- Conditional lifetime guarantee
- Crushproof
- Rustproof
- Powerclaw™ latching system
- Soft grip foldable handle
- Lightweight NK-7™ resin
- Padlockable
- 100% stainless steel hardware
- Automatic pressure release valve
- Integrated lid stay
- Stackable
- Meets airline carry-on regulations

### Exterior Dimensions and Weight:

- L18.7" x W14.8" x H7.0" (L432mm x W300mm x H163mm)
- Weight (empty): 6.2 pounds | 2.8 kg
- Lid depth: 2.1" | 53mm
- Base depth: 4.3" | 108mm
- Material: Polypropylene or Polypropylene with NK-7™ resin.
- Temperature range: Min -20°F (-29°C) Max 140°F (60°C)
- Airline carry-on: Yes
- Warranty: Conditional lifetime guarantee
- Colors: Available in black, silver, orange, yellow, or dark green



### Cellular Antennas (4):

- Frequency Range (MHz) 698-960 / 1710-3800
- Operational Band: 2G/3G/4G LTE
- Peak Gain: 698-960 MHz 4dBi, 1710-3800 MHz 6dBi.
- Gain: Isotropic

### GPS/GNSS Antenna:

- Frequency Range (MHz) 1562-1612 MHz
- Gain: LNA 26dB
- VSWR: <2.0:1 ± 4MHz
- Operating Voltage: 3-5VDC (Fed via Coax)

### WiFi Antennas (4):

- Frequency Range (GHz) 2.4/5 Impedance 50Ω
- VSWR <2.0:1 @ 1575MHz ± 4MHz
- Gain: Isotropic
- Polarization: Vertical
- Maximum Input Power: 25W

### Mechanical Data:

- Dimensions mm (inches)
- Base Height 48 (1.9")
- Base Diameter 170 (9.7")
- Operating Temp (°C) -30° / +80°C (-22° / 176°F)
- Material: ASA/Diecast Aluminum
- Ingress Protection: IPX9K
- Color Black