

# **MBK**<sup>®</sup>

## **MOBILE BROADBAND KIT**

The **MBK-1900 I (Integrated)** is an intelligently designed portable 5G/4G LTE networking system configured with the Cradlepoint R1900 series with an embedded 5G / 4G LTE modem. These modems support worldwide, SIM-based, Auto-carrier selection, CBRS Band 48 and Band14 FirstNet™. The **MBK-1900 I** provides a Cat6 802.11 wireless and gigabyte ethernet networking options.



The **MBK-1900 I** has a custom lid organizer and storage locker and is powered by the 4K Rugged Power Center LifePo4 battery power management system which provides an estimated 4-8 hours of run time. The **MBK-1900 I** is integrated into a mil-spec case with antenna connectors and two ethernet ports extended to the exterior rear of the case.



The **MBK-1900 I** is designed to utilize external antenna systems.

Includes one year of replacement limited warranty coverage on all hardware.

*MBK-1900 I is a 5G and 4G/LTE solution that contains the Cradlepoint R1900 and an integrated LifePo4 battery*

**Typical Client Count:** 50

**Battery Technology:** The battery is a 12.8 volt 8 AH (100 Watt hour) LiFePO4 bank.

**MBK Dimensions:** 17.8" x 10.2"x 6.2"

**Weight:** 20 lbs.

**Run Time:** 4-8 hours (estimated)

**Charging:** The **MBK-1900 I** The internal three stage charge controller will accept 14-18 vdc and up to a 60 watt solar panel. The included wall charger will charge the system in approximately 90 minutes. The internal Battery Protection Circuit prevents over-charge, over-discharge, and short circuits. The volt meter continuously displays the system voltage, and reacts to confirm solar or AC charging. The USB driver is independent, switched, and is 3 amps.



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The **Mobile Broadband Kit (MBK-1900 I)** is the First Responders **5G First Choice** for emergency response.

- |                      |   |                            |   |                       |   |
|----------------------|---|----------------------------|---|-----------------------|---|
| Combat Proven        | ✓ | Police and Fire Operations | ✓ | Military Operations   | ✓ |
| Search and Rescue    | ✓ | FEMA Operations            | ✓ | Construction Sites    | ✓ |
| Flood Operations     | ✓ | National Guard             | ✓ | Disaster Preparedness | ✓ |
| Emergency Management | ✓ | Humanitarian Assistance    | ✓ | Airfield Operations   | ✓ |

**5G Embedded High-Performance Solution**

The **R1900** mobile router includes an embedded 5G modem that can automatically switch to Cat 20 LTE if the vehicle moves outside of 5G coverage. In addition, the R1900 is designed to accept the RX30 managed accessories which provide either four additional PoE ports or four additional GbE ports and a second modular modem. It also has the ability to act as a controller for a separate Cradlepoint 5G Wideband Adapter. These two capabilities, along with the continually improved NetCloud platform, ensure the ability for future expansion and the best investment protection available.



**Hardware Specifications**

The following features are delivered through the hardware.

**Modem:** Embedded 5GB NR FR1 low-, mid-band, and 4G LTE Category 20 modem  
4 x SMA cellular antenna connectors

**Ethernet:** 4 x GbE RJ45 (LAN/WAN switchable)

**Wi-Fi:**  
Dual-radio, dual-band, concurrent operation (2.4 GHz & 5 GHz)  
— 2 x 2 MU-MIMO 802.11ax Wi-Fi 6 with DFS— 574 Mbps (2.4 GHz) & 1,200 Mbps (5 GHz)— 2 x RP-SMA Wi-Fi antenna connectors— Global Optimized Wi-Fi & International SDR  
— WPA/WPA2/WPA3 Personal, WPA2/WPA3 Enterprise, Open— 802.11k, 802.11v

**Bluetooth:** Embedded Bluetooth 5.1 (10 dBm max) — 1 x R-SMA connector

**GNSS /GPS:** 1x SMA GNSS antenna connector

**Power:** DC input steady state voltage Range: 9–36 VDC



**4K Solutions® Outdoor Deployable Antenna Solutions**

**MBK-1900 I's** are designed for locations with low signal strength that require outdoor cellular antennas solutions.



**4K's Antenna Accessory Kits** are a perfect match!



**R1900 5G Bands:** n1, n2, n3, n5, n7, n8, n12, n20, n25, n38, n40, n41, n48, n66, n71, n77, n78, n79

