

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.

 $\it MBK-1900~I$ 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 overcharge, 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.











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



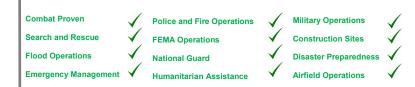




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The **Mobile Broadband Kit (MBK-1900 I)** is the First Responders **5G** First Choice for emergency response.



4K Solutions® Outdoor Deployable Antenna Solutions

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





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



