

MBK[®]

MOBILE BROADBAND KIT

The **MBK-1900 I (Integrated)** part number: **4K-MBK-C19D-EA** intelligently designed portable 5G networking system configured with the Cradlepoint R1900 5G modem and the RX30 with removable MCB-MC400-5GB 5G modem. These modems support worldwide, SIM-based, auto-carrier selection, CBRS Band 48 and Band 14 FirstNet[®].

5G



The **MBK-1900 I** has a custom lid organizer, storage locker and is powered by the 4K Rugged Power Center LifePo4 battery power management system which provides an estimated 6-8 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 (4K-MBK-C19-EA)** is designed to utilize the 4K external antenna system.

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: 22 lbs.

Run Time: 6-8 hours (estimated)

Charging: The **4K-MBK-C19-EA** 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.

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



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The **MBK-1900's** integrated Cradlepoint R1900 router is a 5G Embedded High-Performance Solution.

The **R1900** mobile router includes an embedded 5G modem that can automatically switch to Cat 20 LTE if the MBK™ moves outside of 5G coverage. The **MBK-1900** part number **4K-MBK-C19D** includes the Cradlepoint RX30 to house the MCB-MC400-5GB 5G modem.



Hardware Specifications

The following features are delivered through the hardware.

Modem: Embedded 5GB NR FR1 low-, mid-band, and 4G LTE Category 20 modem and MC400-1200M-B—removable.

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

Wi-Fi: Dual-radio, dual-band, concurrent operation (2.4 GHz & 5 GHz)

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

GNSS / GPS: 1 x SMA GNSS antenna connector



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

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|----------------------|---|----------------------------|---|-----------------------|---|
| 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 | ✓ |

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

