

MBK[®]

MOBILE BROADBAND KIT

The **MBK-900 FI** (Fully Integrated) is an intelligently designed portable 4G/LTE networking system configured with the CradlePoint IBR900-600M or 1200M model with an embedded LTE Advanced 600 Mbps 4G LTE modem. These modems support worldwide, SIM-based, Auto-carrier selection and Band14 FirstNet™ Ready MC400 modem.

The **MBK-900 FI** provides an 802.11 wireless and ethernet networking options.

The **MBK-900 FI** has a custom storage locker and is powered by the 4K Rugged Power Center LifePo4 battery power management system which provides an estimated 11-14 hours of run time. The MBK-900 FI is integrated into a mil-spec case with internal OEM antenna mounting and storage. Two ethernet ports are extended to the exterior of the case. Includes one year of replacement warranty coverage on all hardware.



MBK™ 900 FI is a 4G/LTE solution that contains the CradlePoint COR 900, ClearRF amplifier and integrated LifePo4 battery.

Number of Devices /Users: 30 users /devices.

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

MBK Dimensions: 14.7" x 10.2"x 6.1"

Weight: 19 lbs.

Run Time (estimated): 8-14 hours (estimated)

Charging: The **MBK-900 FI** 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.



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The Cradlepoint COR IBR900 Series router is a ruggedized Gigabit-Class LTE networking platform that is designed for persistent connectivity across a wide range of in-vehicle applications, including first responders, service and delivery vans, taxi and limo fleets, and nearshore vessels. With the available Gigabit-Class LTE modem, optional second modem, Wave 2 dual-band and dual-concurrent Gigabit WiFi, the IBR900 provides reliable 24x7 connectivity for employees and devices, both inside and outside the vehicle. Mobile networks require strong security for various implementations including on-board public WiFi and cloud application access. Offering multi-zone firewalls, IDS/IPS, Inter-net security, and FIPS 140-2 certification, Cradlepoint mitigates security risks for mobile networks and users.

Cradlepoint COR IBR900 Series mobile routers are sold in comprehensive NetCloud Solution Packages that include cloud management, purpose-built hardware, 24x7 support, and limited lifetime warranty.



WiFi1 – Dual-Band, dual-concurrent – 802.11 a/b/g/n/ac wave 2 – MU-MIMO and 256 QAM support – Up to 128 connected devices (64 per radio – 2.4 GHz and 5 GHz) – Multiple SSIDs: 2 per radio (4 total) – WPA2 Enterprise (WiFi) – Hotspot/Captive Portal – SSID-based Priority – Client Mode for faster data offload – Frequencies supported: – 2.4 GHz (2412 – 2472 MHz) – 5 GHz – U-NII-1 (5.150-5.250 GHz) – U-NII- 2a (5.250-5.350 GHz) North America IBR900-600M Only – U-NII-2c (5.470-5.725 GHz) North America IBR900-600M Only – U - NII-3 (5.725-5.825 MHz) North America Only

Specifications:

The following features are delivered through the hardware.

WAN: – Dual-modem capable with optional COR Extensibility Dock – Embedded 1200M LTE Advanced Pro modem (with DC-HSPA+ failover), delivering 1 Gbps** – Embedded 600M LTE Advanced 600 Mbps modem (with DC-HSPA+ failover) – Two LAN/WAN switchable 10/100/1000 Gigabit Ethernet ports – one default WAN (cable/DSL/T1/satellite/Metro Ethernet) – WiFi-as-WAN, Metro WiFi; 2x2 MIMO “N” 2.4 GHz or 5 GHz; 802.11 a/b/g/n/ac wave 2 (IBR900 only)

LAN: – Dual-band, dual-concurrent WiFi; 802.11 a/b/g/n/ac wave 2 (IBR900 only) – Two LAN/WAN switchable 10/100/1000 Gigabit Ethernet ports – one default LAN Ports: – USB 2.0 – Two Ethernet LAN/WAN – Two cellular antenna connectors (SMA) – One active GPS antenna connector (SMA) – Two WiFi antenna connectors (RP-SMA)



Authorized Partners of



The **Mobile Broadband Kit (MBK-900 FI)** is ideal for true “grab and go” portability.



- **Emergency Management**
- **Executive Travelers**
- **First Responders**
- **Internet Service Restoral**
- **Medical “Crash Kits”**
- **Military Operations**
- **Telemedicine**

4G M2M Cellular Amplifier
ClearRF 4K Solutions may include an inline cellular amplifier when applicable. The WRE5500-S enhances 4G signal strength and extends signal range of any cellular-based device used for telemetry.



The WRE5500-S enables devices to communicate to and from the cell tower which is vital for companies that require real-time data comms and visibility from remote telemetry systems and assets. The WRE5500-S connects in-line with any cellular router, modem, module or existing telemetry system.

Validation

Cradlepoint has successfully achieved FIPS 140-2 Inside Validation from NIST.

FIPS 140-2

The Federal Information Processing Standard (FIPS) Publication 140-2, (FIPS PUB 140-2)

