

MBK[®]

MOBILE BROADBAND KIT

The **MBK-1700 FI (Fully Integrated)** is an intelligently designed portable 4G/LTE networking system configured with the CradlePoint IB-R1700-600M or 1200M model with an embedded LTE Advanced 600 Mbps 4G LTE modem. These modems support worldwide, SIM-based, Auto-carrier selection and also available CBRS Band 48 and a Band14 FirstNet™ Ready MC400 modem. The **MBK-1700 FI** provides an 802.11 wireless and ethernet networking options.

The **MBK-1700 FI** has a custom storage locker. The **MBK-1700 FI** 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-1700 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™ 1700 FI a 4G/LTE solution that contains the CradlePoint IBR1700, ClearRF amplifier and integrated LifePo4 battery.

Number of Devices /Users: 50-85 users /devices.

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 (estimated): 4-8 hours (estimated)

Charging: The **BK-1700 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 IBR1700 Series is a World's first LTE mobile router with three-carrier aggregation for best-in-class performance + Embedded LTE Advanced 600 Mbps modem + Field-upgradable with 2nd modem (second wireless carrier) for continuous connectivity + Precision GPS with dead-reckoning enables location-based applications + OBD-II support with accessory cable for vehicle health and diagnostics reporting + Extensibility with GPIOs, Router SDK, NCM API for custom solutions and more!

WAN

Dual-modem capable with MC400 modem slot for 2nd modem
 • 600M: LTE Advanced 600 Mbps LTE/HSPA+ (SIM-based, Auto-carrier Selection for all North American, European, and Asia Pacific carriers; includes support for 700 MHz Band 28 in Asia Pacific)
 • WiFi as WAN, with WPA2 Enterprise Authentication for WiFi as WAN2 • 3rd radio for dedicated back haul • WiFi client mode
 • Failover/Failback • Load Balancing • Advanced Modem Failure Check
 • WAN Port Speed Control • WAN/LAN Affinity
 • IP Passthrough
 • Standby
 • Multi-PDN
 • Smart WAN Selection • Serial PAD mode • DynDNS • AutoQoS • QoS (DSCP and Priority Queuing)
 WAN Port Speed Control WAN/LAN Affinity IP Passthrough Standby



LAN

• VLAN 802.1Q • DHCP Server, Client, Relay • DNS and DNS Proxy • DMZ • Multicast/ Multicast Proxy • MAC Address Filtering • STP2 • GPS broadcast to LAN

WiFi • Dual-Band, Simultaneous Tri Band 2x2 2.4GHz + 2x2 5GHz + 4x4 5GHz WiFi • 802.11 a/b/g/n/ac wave 2 MU-MIMO and 256 QAM support • Up to 192 connected devices (64 per radio – one @ 2.4 GHz and two @ 5 GHz) • Multiple SSIDs: 2 per radio (6 total) • WPA2 Enterprise (WiFi) • Hotspot/ Captive Portal • SSID-based Priority • Client Mode for faster data offload

WAN • Dual-modem capable with MC400 slot • Integrated 600M LTE Advanced 600 Mbps modem (with DC-HSPA+ failover) • Five LAN/WAN switchable 10/100/1000 Ethernet ports – one default WAN (cable/DSL/T1/satellite/Metro Ethernet) • WiFi as WAN, Metro WiFi; 2x2 MIMO “N” 2.4 GHz or 4x4 5 GHz; 802.11 a/b/g/n/ac wave 2 LAN: • Simultaneous Tri-Band WiFi; 802.11 a/b/g/n/ac wave 2 • Five LAN/WAN switchable 10/100/1000 Ethernet ports – four default LAN



The Mobile Broadband Kit (MBK-1700 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. The NIST validation is on the Cradlepoint product for these series routers; NetCloud OS 6 with Linux kernel 3.14 on ARM Cortex-A7 running on Cradlepoint IBR900 Series Routers The validation Numbers are: 2024 & 2164

FIPS 140-2

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



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