

# **MBK**<sup>®</sup>

## **MOBILE BROADBAND KIT**

The **4K-MBK-FPS-505H** is an intelligently designed portable 5G Commercial Solutions for Classified (CSfC) networking system configured with the Cradlepoint R1900 5G modem and the high performance, Wi-Fi 6 Aruba 505H Access Point.

The **4K-MBK-FPS-505H** provides an 802.11 Wi-Fi 6 wireless and ethernet networking options.

The **4K-MBK-FPS-505H** has a custom 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 **4K-MBK-FPS-505H** is integrated into a mil-spec case with internal OEM antenna mounting and storage. Five ethernet ports are extended to the exterior of the case.

Includes one year of replacement warranty coverage on all hardware.

**Number of Devices /Users:** 100 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:** 23.5 lbs.

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

**Charging:** The **4K-MBK-FPS-505H** 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 4K-MBK-FPS-505H's integrated Cradlepoint R1900 router is a 5G Embedded High-Performance Solution.

The Cradlepoint R1900 mobile router includes an embedded 5G modem that can automatically switch to Cat 20 LTE if the MBK® moves outside of 5G coverage.

#### Hardware Specifications

The following features are delivered through the hardware.

**Modem:** Embedded 5GB NR FR1 low-band, 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)

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

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



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## 4K-MBK-FPS-505H

4K Solutions® custom designed **Commercial Solutions for Classified (CSfC) Mobile Broadband Kit - MBK®** configured for secure global network communications.



The **4K-MBK-FPS-505H** leverages the 505H high-end dual radio Access Point from Aruba, a Hewlett Packard Enterprise (HPE) company.

Aruba/HPE through the **NSA Commercial Solutions for Classified (CSfC)** program, has developed an alternative access architecture for classified network connectivity. The 505H is NSA CSfC approved.

The 505H Access Point is certified on the Department of **Defense Information Network (DoDIN) Approved Products List (APL)**.

**HPE**  **networking**

**Aruba 505H:** Dual Band 802.11ax 1.5 Gbits/s Wireless Access Point



### Aruba/HPE NSA Commercial Solutions for Classified (CSfC) Network Diagram

