

# **MBK**<sup>®</sup>

## **MOBILE BROADBAND KIT**

The **4K-MBK-XR90** (Fully Integrated) is an intelligently designed portable 5G networking system configured with the Sierra Wireless Airlink<sup>®</sup> XR90 5G modem. These modems can support worldwide, SIM-based, auto-carrier selection, and First Responder bands.

The **4K-MBK-XR90** provides a WiFi6 802.11 wireless and giga-byte ethernet networking options.

The **4K-MBK-XR90** 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-XR90** is integrated into a mil-spec case with integrated antenna carrier and an internal storage. Ethernet ports are extended to the exterior of the case. Includes one year of limited warranty coverage on all hardware.

*4K-MBK-XR90 is a 5G solution that contains the Sierra Wireless Airlink<sup>®</sup> XR90 and an integrated LifePo4 battery bank.*

**Typical Client Count:** 256

**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:** 23 lbs.

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

**Charging:** The **4K-MBK-XR-90:** 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 supercharged AirLink® XR90 is purpose-built for public safety and transit with available dual-5G cellular radios and dual independent 4x4 MU MIMO Wi-Fi 6 antennas. It is the highest performing, most flexible router in the Sierra portfolio. It supports complete device-to-cloud security, reduces your total cost of ownership with ALMS Out-of-Band management, and with the cartridge-based design, enables long-term expandability and upgradability.

Single 5G: 5 Gigabit Ethernet

GNSS with Dead Reckoning

Dual 4x4 MU MIMO Wi-Fi 6

Single/Dual Serial

IP64 Rated

AirLinkOS with AirLink Premium

The XR90 also has an LPWA Cellular interface, equipped with a Sierra Wireless Ready to Connect (R2C) eSIM, that provides a connection to AirVantage.



**AirLink Premium**

Ensures your AirLink XR90 hardware operates at peak efficiency and is always accessible. With device management and robust mobility reporting combined with our best-in-class management service and technical support, this offering includes:



AirLink Management Service (ALMS) network management

Advanced Mobility Reporting (AMR)

24/7/365 Tier 1 technical support from wireless experts via phone or online access

Extended hardware warranty - up to 5 years

The Mobile Broadband Kit (4K-MBK-XR90) is the First Responders 5G First Choice for emergency response.



**Rapid Deployment**

**4K-MBK-XR090** is designed for locations with good 5G/4G LTE signal strength and quick deployment. No external antennas are required. LAN and WAN Ports extended to the outside of the kit.



**5G Bands Supported:** n1, n2, n3, n5, n28, n41, n66, n71, n77, n78, n79 (NSA & SA Support)

Future Variant adds support for: n7, n8, n12, n20,



**4K-MBK-XR90**