MMK™ Mobile MANET Kit

The **MMK-4480** is an intelligently designed portable Mobile Networked MIMO (MN-MIMO) networking system configured with the Silvus Technologies **STREAMCASTER SC4480E** (**Enhanced)** 4X4 MIMO radios.

Silvus Technologies MIMO MANET communications systems utilize state-of-the-art StreamCaster software defined radios that deliver throughput, range and connectivity that WiFi-based systems cannot match. Silvus radios and accessories were developed to withstand the demands of air, sea and ground communications in harsh, highly mobile and high-stakes situations.

SC4400E delivers the power of 4×4 MIMO in a ruggedized package. SC4400E is ideal for use in fixed infrastructure, vehicular, long range, and airborne applications where maximum performance is desired.

The **MMK-4480** is powered by the 4K Rugged Power Center LifePo4 battery power management system which provides an estimated 6-12 hours of run time. The **MMK-4480** is integrated into a mil-spec case with internal OEM antenna mounting and power supply storage One ethernet port is extended to the exterior of the case. The **MMK-4480** is designed to operate as a close-lid solution. Includes one year of warranty coverage on all hardware.

Output Power: Up to 8 Watts (up to 32W effective performance thanks to beamforming)

Battery Technology: The battery is a 12.8 volt 8 AH (100 Watt hour) LiFePO4 bank. TSA carry-on compliant!

MMK Dimensions: 16.87L x 14.05W x 9.27D **Weight:** 25 lbs.

Run Time (estimated): 6-12 hours (estimated)

Charging: 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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STREAMCASTER 4400E Series

GENERAL

WAVEFORM: Mobile Networked MIMO (MN-MIMO)]

ENCRYPTION: Mobile Networked MIMO (MN-MIMO) DES56 (Standard) AES256 (Optional) FIPS140-2 Level 2 (Suite B)

DATA RATE: Up to 100Mbps (Adaptive)

MIMO TECHNIQUES: Spatial Multiplexing, Space-Time Coding, TX/RX Eigen Beamforming

OUTPUT POWER: 1mW - 8W variable (up to 32W effective w/ TX Beamforming)

PUSH-TO-TALK VOICE: G.711/G.722/Opus Codecs,

LATENCY: 7ms average (20MHz BW)

SENSITIVITY: -102dBm @ 5MHz BW

FREQUENCY BANDS: Bands from 400MHz to 6GHz available

ONBOARD STORAGE: 64GB

DIAGNOSTICS: Spectrum Scanning, Statistics Logging, Temperature/Voltage Monitoring

ANTI-JAM FEATURES: MANET Interference Avoidance (MAN-IA) opt

The MMK™ 4480 is Mission Ready!

- **Broadcast**
- **Auto Racing**
- **Law Enforcement**
- **Maritime Operations**
- **Military Operations**
- **Robotics**
- **Ship boarding Operations**
- **Subterranean**
- **Surveillance**
- **Unmanned / Drone**

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TSA Carry On Compliant!