

# Sonim Rapid Deployment Kit

**The Sonim Rapid Deployment Kit (RDK) is exactly what you'd expect from the world's leader in next generation public safety communication solutions.**

It provides first responders and public safety agencies secure and reliable access and connectivity for use in mission critical deployments.

### **Ultra-rugged and ultra-portable.**

Each kit is wheeled with a handle for easy transport and is equipped with four Sonim XP8 smartphones, Cradlepoint modem, 15.6 Ah battery, and a Bluetooth-enabled battery monitoring system to keep both the RDK-3i and XP8s powered throughout the emergency situation.

With JPS RSP Z-2 Dual Channel Gateway extend LMR interoperability by connecting to two LMR radios to enhanced PTT services for cross-band/cross system capabilities (INTEROP).

And with optional intelligent failover to reliable satellite\* capability via Inmarsat Government-provided Broadband Global Area Network (BGAN), first responders can communicate and coordinate efforts, when no other coverage is available.

\* BGAN Equipment and Inmarsat Satellite Services sold separately.

\*\* Each XP8 in the kit and the included router each require their own service plan.



**Test Methodology**

Default configuration shipped with hardware including NAT and basic stateful/zone firewall configuration. Throughput is shown as bi-directional TCP traffic with less than a 1% packet loss using four wired clients. Number of clients is determined by amount of available memory during throughput testing.

**Number of Clients**

Each customer deployment may have a different number of clients. Having high client counts may not be supported on the device and/or performance results may vary from the published results.

**Physical**

**Interior Dimensions** 20.5" x 15.3" x 10.1"

**Exterior Dimensions** 22.8" x 18.3" x 11.7"

**Weight**  
Without Sonim Units 23.8 LBS

**Weight**  
With 4 Sonim XP8 Units 26.8 LBS

**Colors Available** Black (standard), Yellow, Orange, Green

**Case Material** Lightweight NK-7 Resin

**Latch** ABS

**O-Ring** Polymer

**Waterproof (IP67)** Yes

**Airline Check-In** Yes

**Airline Cabin Carry-On** No

**Battery**

**Type** LiFePO4 - Lithium Ferro Phosphate

**Voltage** 13.2 VDC

**Capacity** 15.6Ah – 205.9Wh

**Battery Life** 8 Years

**TSA/FAA Travel Guidelines** Split Cell falls within TSA/FAA guidelines to travel

**Standard Charge Voltage** 13.9 – 14.6 VDC

**Maximum Charge Voltage** 15 VDC

**Environmental Rating** IP66

**WiFi Power**

**2.4 GHz** 18 dBm conducted

**5 GHz VHT20** 17.5 dBm conducted

**5 GHz VHT40** 17 dBm conducted

**5 GHz VHT80** 16.5 dBm conducted

**Cellular Power**

**LTE** 23 dBm ± 1 conducted

**HSPA+** 23 dBm ± 1 conducted

**EVDO** 24 dBm ± 1 conducted

**Temperature**

**Operating** -20 °C to 60 °C  
(-4 °F to 140 °F)

**Storage** -40 °C to 85 °C  
(-40 °F to 185 °F)

**Warranty**

**Warranty** Limited Warranty

**Power Consumption @ 13.2 VDC**

**Power On - Idle** 5W

**WiFi – TX/RX** 9W

**LTE TX/RX** 6.25W

**PoE Switch – Idle**  
(no connections) 3W

**PoE Switch – Working**  
(with connections) 6W

**Battery Monitor with Bluetooth** 1W

**Sonim XP8 Chargers** (charging) 3W (during charge)

**Sonim XP8 Chargers** (all charging) 12W (during charge)

**Estimated Working Time** (average) 6.8 hours est. (until recharge required)

**Estimated Working Time** (maximum) 8.9 hours est. (until recharge required)

**GPS**

**Protocols** TAIP; NMEA 0183 V3.0

**Satellite Channels** Maximum 55 channels, simultaneous tracking

**Concurrent Standalone** GPS, GLONASS, BeiDou and Galileo

**Accuracy** <2 m: 50% <5 m: 90%

**Antenna Connections (type)**

**GPS** SMA

**WiFi** R-SMA

**Cellular** SMA

**Ethernet (PoE)**

**Number of Ports** 3 port unmanaged 10/100 switch

**Auto-Configuration** For speed (10BASE-T or 100BASE-T) and duplex

**PoE Outputs** IEEE802.3af / IEEE802.3at compatible

**Cabling** Use with Cat 5, Cat 5e or Cat 6 patch or crossover cables

**SIM Cards**

**Handheld Devices** Nano – 4FF

**Internal Modem** Standard – 2FF

**Handheld Devices**

**Devices** Sonim XP8 Ultra-Rugged Smartphone

**Battery** 4900 mAh

**Warranty** 3-Years

**Interoperability (JPS RSP-Z2)**

**Channels** 2, 80 with network

**Interfaces** Radio, PSTN, SIP, RTP, RoIP, LTE, Bluetooth

**Donor Radio Ports** 2

**12 VDC Accessory Ports**

**12 VDC Vehicle type plug** 12 VDC @ Max 3.0 Amps

**Charging**

**AC Charging** Global (100-240V 50-60Hz)

**Solar Charging** 12 – 18 VDC

**Modem Performance (IBR900)**

**Max Throughput with all security features enabled**  
(Firewall, IPSec, CPSTM, CPSWF, App Analytics) 30 Mbps

**Max Throughput** (Default Configuration) 900 Mbps

**Max Concurrent TCP Sessions** 16,000

**Max IPSec VPN Throughput** 30 Mbps

**Max Concurrent VPN Tunnels** 10

**Max Throughput with CPSTM (IPS)** 80 Mbps

**Max Throughput with CPSWF**  
(Content Filter) 900 Mbps

**Max Throughput with App Analytics** 80 Mbps

**Max Throughput with IPSEC + CPSWF** 30 Mbps

**Max Throughput with IPSEC + App Analytics** 30 Mbps

**Max Throughput with IPSEC + CPSTM + CPSWF** 30 Mbps

**Max Throughput with IPSEC + CPSTM + App Analytics** 30 Mbps

**Max Throughput with IPSEC + CPSTM + CPSWF + App Analytics** 30 Mbps

**Max Throughput with CPSTM + CPSWF** 80 Mbps

**Max Throughput with CPSTM + App Analytics** 80 Mbps

**Max Throughput with CPSTM + App Analytics + CPSWF** 80 Mbps

**Max Throughput with App Analytics + CPSWF** 80 Mbps

**USB Charging Ports**

**USB Type** 2.0 Charging

**Current Capacity** 3.15 A

**Output Voltage** 5 VDC

**Humidity (non-condensing)**

**Operating** 5% to 95%

**Storage** 5% to 95%