

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-3 and XP8s powered throughout the emergency situation.

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
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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	4 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

Humidity (non-condensing)

Operating	5% to 95%
Storage	5% to 95%

12 VDC Accessory Ports

12 VDC Vehicle type plug	12 VDC @ Max 3.0 Amps
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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