



# SA 2100

4G LTE (N.A.) / 3G DC HSPA+ (R.O.W.)

The MiFi® Powered™ M2M solution for high speed cellular connectivity, Wi-Fi access, GPS tracking, internal antennas, battery backup and more.

## THE MIFI® POWERED™ SA 2100: SMART. SIMPLE. SECURE.

The only versatile and cost-effective M2M solution that incorporates the industry-leading MiFi® technology for a variety of fixed and mobile applications.

### VERSATILITY

The compact SA 2100 is designed with multiple mounting options and connectivity interfaces for M2M applications including Fixed Telemetry, Fleet Management and Asset Tracking, and Connected Car, right out of the box. Internal antennas minimize installation time and cost, while auto-switching between internal and external antennas provides options to ensure the best RF performance in any situation.

### FAST AND FUTURE PROOF

With connectivity to 4G LTE and 3G networks, the SA 2100 provides the highest wireless data rates and the longest device service life. Now managers can upgrade firmware remotely, manage devices centrally and reduce the number of costly site visits, all while being assured that their solution will support carrier network updates for years to come.

### RELIABILITY

The rugged SA 2100 is designed to get connected easily and stay connected. The MiFi® Powered™ platform offers unique features to ensure business continuity. Battery backup delivers instant failover during power outages. Advanced security of encryption and authentication protocols offers peace

of mind. The extended operating temperature range makes the SA 2100 the reliable choice.

### EASY DEPLOYMENT, EASY INTEGRATION, EASY USAGE

Securely connect, collect and transmit valuable field data quickly and easily, just install and deploy – no complicated configurations or programming necessary. Designed with multiple interfaces, internal antennas, intuitive web UI, preconfigured default settings, and self-registration to the central management already enabled, the SA 2100 is built with “Power it up, ready to connect” in mind.

### CLOUD MANAGEMENT

With cloud-enabled N4A™ Device Manager software, any number of devices can be easily managed and monitored around the globe in a cost-efficient and scalable manner. The N4A™ Device Manager features remote management and monitoring from a central location to configure, monitor, manage and even update devices and assets all over the air, minimizing costly onsite visits.

### TARGETED VERTICAL MARKETS

Video Surveillance	Vending Machines
Digital Signage	Parking Meters
Connected Cars	Service Fleets
Kiosks	ATM

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## WWAN

### Frequency

- 4G LTE: 700/850/AWS/1900 MHz
- 3G UMTS/HSPA/HSPA+: 850/900/AWS/1900/2100 MHz
- 2G GPRS/EDGE: 850/900/1800/1900 MHz

### Bands

- LTE: B2, B4, B5, B17
- WCDMA: B1, B2, B4, B5, B8
- GSM: B8, B9, B13, B14

### Data Speed

- LTE: 100 Mbps
- DC-HSPA+: 42 Mbps
- HSPA+: 21 Mbps

### Routing

DHCP server, DNS, static or dynamic IP address, port filtering, port forwarding

### Security

NAT, VPN pass-through, IPSec VPN, MAC access control

## LAN

- Wired: 1 Ethernet port (RJ45 Connector)
- Wireless: Wi-Fi 802.11 b/g/n, 10 clients, pre-configurable security: WEP/WPA/WPA2

## ANTENNA

- Internal cellular antenna (primary + diversity)
- External cellular antenna (primary + diversity; automatically switches between internal and external; SMA Connector)
- Internal Wi-Fi antenna (2.4 GHz)
- Internal GPS antenna (1575 MHz)

## INTERFACES AND I/O

- Micro USB on-the-go (latched)
- Micro SIM card slot
- 2 Digital inputs
- 1 Digital output (latched)
- 1-Wire® interface
- 2 User-controlled I/O



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Specifications are subject to change, please see your Novatel Wireless contact for more details.

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## LED

- Signal strength, network indicator, power/battery, Wi-Fi

## DEVICE MANAGEMENT

- Production Env.: Cloud-based
- Testing Env.: Cloud-based; 90-day free access with engineering support
- Bulk Provisioning: Over-the-air or local
- Firmware Upgrade: FOTA or local

## POWER

- Input Power Range: 9-32 VDC (Molex Connector); 12V or 24V vehicle ready
- Battery Backup: Hours of continuous usage

## CASE

- Dimension: 107 x 81 x 30 mm
- Weight: 220 g
- Mounting Acc.: Mounting bracket, Velcro tape, tie-wrap, bolts, adhesive
- Mounting Opt.: Wall, ceiling, floor, vehicle, existing structure, flat surface

## ENVIRONMENT

- Operating Temp.: -30°C to 70°C (external power) -20°C to 60°C (battery)
- Storage Temp.: -40°C to 85°C
- Relative Humidity: Up to 95% non-condensing

## CERTIFICATIONS

- FCC, IC, PTCRB, GCF, CE, Wi-Fi Alliance, eMark, CSA Approved, AT&T

## PART NUMBERS

- Device: LTE1101-50 (LTE); UMT1301-50 (HSPA+)
- Starter Kit: LTE1101-2KT (LTE); UMT1301-2KT (HSPA+)

## OPTIONAL ACCESSORIES

- Rechargeable Li-ion battery
- Power adapter (Molex AC)
- Power cable (Molex DC)
- Mounting bracket
- Mounting bracket (in-vehicle)
- USB cable
- USB cable (latched)
- External cellular antenna (SMA)