



SA-G+ - Shown next to quarter to illustrate its compact size.

SA-G+

GSM/GPRS, HSDPA (UMTS 3G) and CDMA2000® 1X

The M2M solution with simple access to 2G/3G cellular networks in a compact design that provides real-time visibility for monitoring and control.

SA SERIES

The Enfora® SA Series enables multi-technology telemetry solutions for cellular M2M applications through two device platforms: the SA-G+ for 2G/3G cellular connectivity and the versatile MiFi® Powered™ SA 2100 for 3G/4G mobile broadband access.

VERSATILE APPLICATIONS

With its compact design and low power consumption, the SA-G+ is an ideal device to connect machines requiring low data throughput to the mobile Internet. The SA-G+ can drive applications from Remote Monitoring Automation & Control (RMAC) in public utilities, oil/gas, manufacturing, and facilities, to cellular connectivity for ATM, vending, and lottery machines as well as parking meters and gaming terminals. The convenience and efficiency of anywhere, anytime connectivity is priceless.

EXPANSION FRIENDLY

Whether your application is in North America or beyond, Novatel Wireless provides global band support through multiple product SKUs using our in-house designed GSM/GPRS, CDMA2000® 1X and HSDPA (UMTS 3G) cellular modems. In addition to ensuring you receive high-quality components throughout our product design, our end-to-end multi-technology roadmap allows enterprises to leverage one integration effort across worldwide multi-carrier deployments.

COMPACT SIZE

Designed for space constrained environments, the SA-G+ has a petite, light weight form factor and flexible tie-wrap or hole-mounting options that enable a variety of installation scenarios.

CLOUD-BASED MANAGEMENT

Managing globally distributed machines is easy with our cloud-based N4A™ Communications and Management Software (CMS) and N4A Device Manager. With scalability to manage millions of devices, our N4A solution remotely provisions and updates devices through Firmware Over-The-Air (FOTA) and intelligently monitors user-defined events, giving you enterprise-enabling access to remote data when you need it most.

EASY DEPLOYMENT & INTEGRATION

From serial interface and user-controlled I/O, to preconfigured default settings and enabled self-registration to central management, the SA-G+ is built with Simple Access in mind. If questions arise, Novatel Wireless' engineers are distributed around the globe, ready to support your deployment success.

TARGETED VERTICAL MARKETS

Smart Grid/AMI Metering
Gas Plants, Water Tower Maintenance
Monitoring Utility Gauges
Process Automation: Industrial, SCADA
Vending/Gaming Machines, ATM/POS Lottery Terminals
Safety & Security
Kiosks, Billboards, Digital Signs
TeleHealth

SA-G+

GSM/GPRS, HSDPA (UMTS 3G) and CDMA2000® 1X

FREQUENCY

- **HSDPA:**
850/1900 HSDPA 850/1900 GPRS/EDGE (NA)
900/2100 HSDPA 900/1800 GPRS/EDGE (EU)
- **CDMA2000® 1X:** 800/1900 MHz
- **GPRS:** 850/900/1800/1900 MHz

INTERFACE

- **RS232:** DB9 connector
- **GPIO:** 8-pin Molex connector; 2 configurable IO, 1 configurable output
- **Power:** 8-pin Molex connector
- **Voltage Range:** 6-32 VDC
- **Antenna:** External- SMA connector
- **SIM Slot:** GPRS: Mini-SIM (locking)
CDMA2000® 1X: N/A
HSDPA: Mini-SIM (locking)
- **LED:** Connection signal

DEVICE MANAGEMENT

- **WEB GUI:** Yes
- **Central/Remote Management:** N4A CMS (Cloud)
- **Central/Remote Pro.:** N4A Device Manager (Cloud)
- **Customized Preconfiguration:** Available
- **Firmware Upgrade:** FOTA

HOUSING

- **Dimensions:** 63.5mm L x 63.5mm W x 23.9mm D
- **Weight:** 80g
- **Material:** Plastic

ENVIRONMENT

- **Operating Temperature:** -30°C to 70°C
- **Storage Temperature:** -40°C to 85°C
- **Relative Humidity:** Up to 95% non-condensing

APPROVALS

- **GCF:** GPRS: Yes
CDMA2000® 1X: N/A
HSDPA: Yes
- **FCC:** GPRS: Yes
CDMA2000® 1X: Yes
HSDPA: Yes
- **IC:** GPRS: Yes
CDMA2000® 1X: Yes
HSDPA: Yes
- **PTCRB:** GPRS: Yes
CDMA2000® 1X: Yes
HSDPA: Yes
- **CE:** GPRS: Yes
CDMA2000® 1X: N/A
HSDPA: Yes
- **RoHS:** GPRS: Yes
CDMA2000® 1X: Yes
HSDPA: Yes
- **Local Operator Certs:**
GPRS: Carrier - AT&T, Rogers, Telefónica, Comcel, Entel;
Regulatory - C-Tick, A-Tick, ACMA, ANATEL, COFETEL
CDMA2000® 1X: Verizon, Sprint
HSDPA: AT&T

PART NUMBERS

- **Device**
GPRS: GSM1318-50
CDMA2000 1X®: RTT1201-50
HSDPA: UMT1202-50 (ROW), UMT1203-50 (NA)
- **Antenna**
ANT2011
- **Power Cable**
CAB1308
- **Power Adaptor**
PSA1000



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