



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Graphite™ Module: HSPA+ Cellular

Red Lion Automation Series



## ▶▶▶ High-Speed HSPA+ Cellular Communication

The HSPA+ plug-in module expands the communication reach of our Graphite HMI operator interface panels by providing a high-speed cellular connection to remote assets.

The new module uses an HSPA+ cellular network to provide reliable high-speed data communication to remotely-located assets across oil and gas, water and wastewater, power, utility and alternative energy applications. Configure the HSPA module using Red Lion's Crimson® software, which makes setup simple via an intuitive graphical user interface with drag-and-drop functionality.



### APPLICATIONS

- > Alternative Energy
- > Oil & Gas
- > Power
- > Utility
- > Water and Waste Water

### PRODUCT HIGHLIGHTS

- > Remotely Monitor and Control Assets
- > High-Speed Cellular Data Connection
- > Removes Need for External Gateways
- > All-in-One Solution, Easily Programmed

### FEATURES & BENEFITS

- > Remote Monitoring and Control
  - Reliable high-speed cellular communication to monitor remote equipment and processes
  - Leverage powerful Graphite HMI functionality through virtual HMI
  - Receive real-time email or SMS notifications
- > All-in-One Solution
  - Removes need for external devices and communication gateways
  - Cost-effectively saves space and time
- > -30° to 60°C Operating Temperature
  - Reliably works in harsh environments
- > Powered from Graphite Host
  - Simplifies deployment by eliminating external power
- > Easily Programmed
  - Seamless configuration using Red Lion's Crimson desktop software

industrial

automation



# ▶▶▶ HSPA+ Cellular Module Specifications

## POWER

GMHSPA Power Consumption:  
 HSPA+ Mode: 3.5 W avg. (5.4 W max)  
 GPRS Mode: 8.5 W avg. (15 W max)

## COMMUNICATION PROPERTIES

HSPA+ with Fallback Capability to 3G and 2G  
 Maximum Speeds: downlink 21 Mbps, upload 5.76 Mbps  
 Antenna Isolation from Graphite host device 500 VDC for 1 minute

## ANTENNA CONNECTOR

One (1) SMA Female Connector on module  
 Requires 50 Ohm antenna with SMA male connector  
 Penta-band HSPA+ antenna (850/900/1700/1900/2100 MHz) global  
 Dual-band antenna (850/1900 MHz) US and Canada  
 Dual-band antenna (900/2100 MHz) Europe

## CERTIFICATIONS AND COMPLIANCES

CE Approved:  
 EN 61326-1 to Industrial Locations  
 IEC/EN 61010-1  
 RoHS Compliant

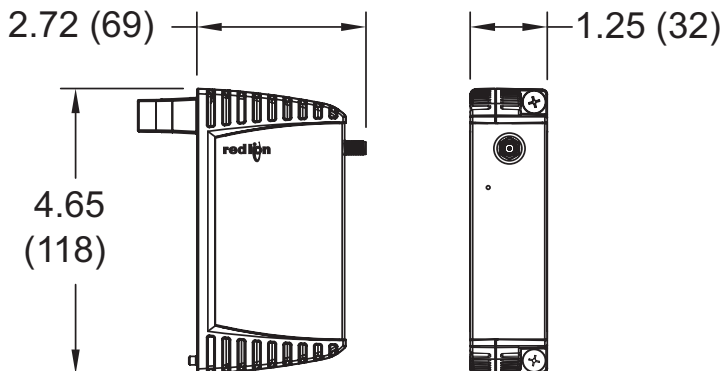
## ENVIRONMENTAL

Operating Temperature Range: -30° to +60°C  
 Storage Temperature Range: -40° to +85°C  
 Operating and Storage Humidity: 85% max relative humidity,  
 non-condensing  
 Altitude: Up to 2000 meters

## ORDERING GUIDE

PART NUMBER	DESCRIPTION
GMHSPA00	Graphite Module, HSPA+ Cellular Module
ANT-TG090113	2G/3G 3" Hinged Antenna
ANT-G30B108111	2G/3G/4G LTE Low Profile Direct Permanent Mount Antenna, IP67 Rated
ANT-GA107201111	2G/3G 4.5" Whip Magnetic Mount Antenna, IP65 Rated
ANT-G21B301111	2G/3G Low Profile Direct Permanent Mount Antenna, IP65 Rated

## DIMENSIONS In inches (mm)



[www.redlion.net](http://www.redlion.net)

**Connect. Monitor. Control.**

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As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our automation, Ethernet and cellular M2M technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. Red Lion is part of Spectris plc, the productivity-enhancing instrumentation and controls company. For more information, please visit [www.redlion.net](http://www.redlion.net).

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