Graphite™ Module: HSPA+ Cellular

Red Lion Automation Series

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

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
6ANT0113	2G/3G 3" Hinged Antenna
6ANT1081	2G/3G/4G LTE Low Profile Direct Permanent Mount Antenna, IP67 Rated
6ANT1072	2G/3G 4.5" Whip Magnetic Mount Antenna, IP65 Rated
6ANT3011	2G/3G Low Profile Direct Permanent Mount Antenna, IP65 Rated

DIMENSIONS *In inches (mm)*

2.72 (69)   4.65 (118)   1.25 (32)