

HSPA+ Cellular Communication Module

Red Lion Automation Series



▶▶▶ High-Speed HSPA+ Cellular Communication

The HSPA+ plug-in module expands the communication reach of our select devices by providing a high-speed cellular connection to remote assets.

The 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

- > Automotive
- > Food & Beverage
- > Factory Automation
- > OEM Machine Builders
- > Water/Wastewater

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
 - Control systems 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
- > -10 to 50 °C operating temperature
 - Reliably works in industrial environments
- > Powered from host device
 - Simplifies deployment by eliminating external power
- > Easily Programmed
 - Seamless configuration using Red Lion's Crimson desktop software

industrial

automation



▶▶▶ HSPA+ Cellular Module Specifications

POWER

CRM0 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 host
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: -10 to 50 °C
Storage Temperature Range: -40 to 85 °C
Operating and Storage Humidity: 85% max relative humidity,
non-condensing
Altitude: Up to 2000 meters

COMPATIBLE HOST DEVICES

CR3000 HMIs
DA30D High Performance Data Station

ORDERING GUIDE

PART NUMBER	DESCRIPTION
CRM000CMCMOD0000	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

*3G/HSPA+ activation availability is carrier dependent.
Please check with your cellular carrier to determine if 3G/HSPA+ is available in your area.

DIMENSIONS *In inches (mm)*

