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<sup>®</sup> 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

industrial

- 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

automation

CE

- > Powered from host device
  - Simplifies deployment by eliminating external power
- > Easily Programmed
  - Seamless configuration using Red Lion's Crimson desktop software

#### 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**

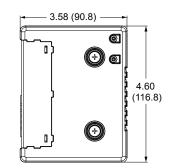
DESCRIPTION
HSPA+ Cellular Module <sup>★</sup>
2G/3G 3" Hinged Antenna
2G/3G/4G LTE Low Profile Direct Permanent Mount Antenna, IP67 Rated
2G/3G 4.5" Whip Magnetic Mount Antenna, IP65 Rated
2G/3G Low Profile Direct Permanent Mount Antenna, IP65 Rated

\*3G/HSPA+ activation availability is carrier dependent.

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

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#### **DIMENSIONS** In inches (mm)