

The Harris SG5300 is an ideal fixed-point, wireless data modem to help monitor and manage remote devices operating in the 800 MHz and 900 MHz frequency bands. The SG5300 can be mounted indoors or in a weatherproof enclosure. Utilizing the coverage of the OpenSky network, the SG5300 provides for data communication to areas that were previously hard or expensive to retrieve data from.



Physical Characteristics:

- Power Requirements: +9 to +57 Vdc
- Power Consumption: 9.6 Watt Transmit
2.5 Watt Receive
<3 Watt Average Power at 95/5
- Size (H x W x D): 1.5 x 3.9 x 7.8 in
(3.9 x 10 x 19.8 cm)
- Weight: 1.6 lbs (0.7 kg)
(less mounting hardware)

System Interfaces:

Ethernet - The SG5300 Ethernet interface is used for connecting to an RTU.

- Connector Type: RJ45
- Electrical Protocol: 10/100 BaseT
- Data Format: Ethernet IEEE 802.3

Serial - The SG5300 serial interface is for data using SLIP, PPP or DNP protocols.

- Connector Type: 9-pin D Receptacle
- Electrical Protocol: EIA/TIA-232 Full Duplex
- Data Format: 8 bits/character, 1 start bit, 1 stop bit

UNPACKING EQUIPMENT

The SG5300 data Modem equipment may be shipped in separate transit packages. Any associated cabling and accessories for each unit may also be shipped in separate containers. Models meeting the Class I, Division 2 non-incendive ratings include a Serial Port Protective Cover which must be installed when no serial cable is connected to the unit.

When unpacking the equipment, check the contents against the packing list. Contact your Harris

representative and the carrier if any discrepancies are noted.

ITEMS INCLUDED

The following items are included in the SG5300 Data Modem package:

- RU-019026-800 Radio Unit, Data Only, SG5300, 800 MHz
or
- RU-019026-900 Radio Unit, Data Only, SG5300, 900 MHz

REGULATORY APPROVALS

Transmitter

The transmitting device listed below has been tested and meets the following regulatory requirements:

| MODEL | DESCRIPTION | FCC ID (PART 90) | INDUSTRY CANADA (RSS-119) |
|------------|--------------------------|---------------------|------------------------------|
| SG5300-800 | RU-019026-800 Radio Unit | OWDTR-0063-E | 3636B-0063 |
| SG5300-900 | RU-019026-900 Radio Unit | OWDTR-0064-E | 3636B-0064 |

For more detailed Installation and Configuration instructions, refer to the *SG5300 Data Modem Product Manual MM-018623-001*, available online at: <http://www.pspc.harris.com>.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

INDUSTRY CANADA

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Division 2 Non-Incendive Protection

Division 2 Non-Incendive Protection rating is optional for the Harris SG5300-900. When ordered with this option, the apparatus is suitable for use in hazardous locations as defined by the National Electrical Code (NEC) as Class I, Division 2, groups A, B, C and D applications. Either the Serial Port Protective Cover or a serial cable must be installed on the serial port to meet non-incendive ratings. The serial cable or protective cover mounting screws shall be torqued to a minimum of 3 in-lbs. The RF antenna connector shall be torqued from 15 to 17 in-lbs.

Always follow all NEC, NFPA and local codes when installing this equipment in hazardous areas. Knowledgeable personnel, who are familiar with national and local codes, must supervise hazardous area equipment installations. A readily accessible disconnect device shall be incorporated external to the equipment. A 1-Amp over-current protection device shall be provided external to the equipment.



WARNING: EXPLOSION HAZARD.
DO NOT DISCONNECT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITIBLE CONCENTRATIONS.

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This product conforms to the European Union WEEE Directive 2002/96/EC. Do not dispose of this product in a public landfill. Take it to a recycling center at the end of its life.