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## Qolsys SRF319H Module

(HVIN: SRF319H)



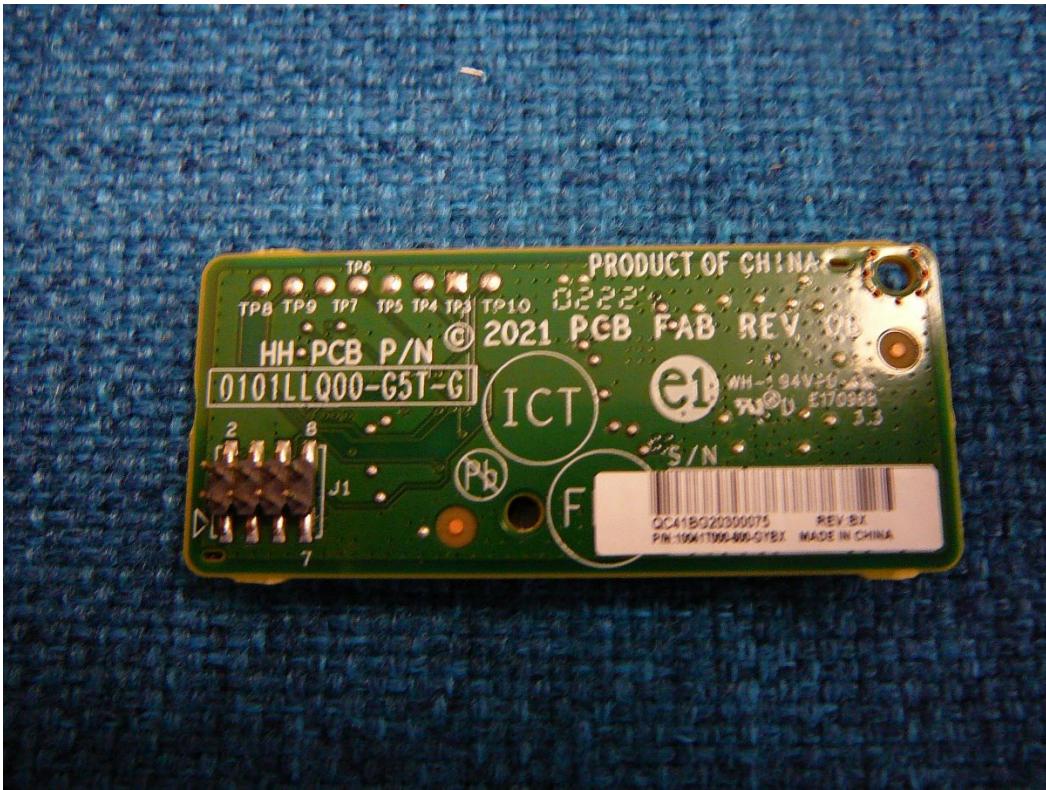
### General Applications:

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The Qolsys SRF319H Module features the Si4463 which is a low power transceiver silicon from SiLabs, capable of providing air interface to and compatibility with devices. Qolsys Security host devices (final products) that integrate this module will gain compatibility with a variety of Interlogix devices as well as Qolsys S-line devices for security: Door/Window sensors, motion detectors, glass sensors etc.

### **Installation and Operation:**

The module has a simple 8 pin header interface for power, reset, and UART connections. The mounting screw is required for mechanical stability and to ensure a robust ground connection. The module has a u.fl connection intended for Antenna connection for connection to the final product antenna tuned to operate at the 319.5 MHz frequency. Do not place any large pieces of metal around or near the antenna, as it will inhibit performance. This module is intended to be installed in Qolsys or its' affiliates final products which is intended to be a minimum of 20 cm or greater away from user in normal operation.



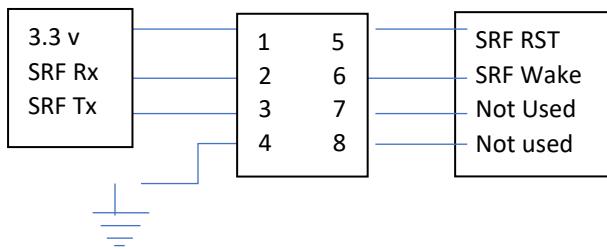
The Qolsys SRF319H Module operates at 319.5 MHz with an output power set at 0 dBm with trace and filter loss is approx.. 1.3 dbi. Data and protocol specifications are beyond the scope of this document. Please contact Qolsys for the technical specifications. It is intended for use with the Radial Antenna as detailed in the SRF319H Antenna document – Peak Gain 1.94 dBi.

### **Integration Instructions:**

The Qolsys SRF319H Module is installed in the Qolsys final product using an 8-pin connector with Pin Configuration as detailed below and secured in place by a screw and connection to the Qolsys host ground plane. The Module is installed in Qolsys products and is only operable by Qolsys host systems designed to communicate with this device. It is intended to connect to the host antenna using the u.fl

connector. Qolsys Host device will typically receive a heartbeat signal which is a pulse (non-continuous) from a paired device (i.e. door contactor or the like) but does not typically transmit a heartbeat. Our product is considered transmitter activated automatically. In the rare situation where our device transmits an internal heartbeat (supervisory) to a device, the heartbeat signal transmission is once every 90 minutes, but for commercial applications may be as much as once every minute maximum and may not be modified. The Qolsys host device is the only device than can start/stop transmission or receiving mode of the module. Careful matching of the antenna to the 319.5 Mhz Frequency of this device should be conducted in the host and compliance with FCC and ISED requirements shall be determine as part of the Host (Final product) system. The Qolsys host system may not alter the firmware of the SRF319H Module without permission and approval of the Qolsys including when applicable obtaining a Class II permissive change to the SRF319H FCC approval.

**Pin Configuration:**



**FCC Compliance:**

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FCCID: 2AAJXQS-SRF319H

This device complies with part 15 of the FCC Rules. Operation is subject to the following three conditions: (1) This device may not cause harmful interference, (2) this device must accept any interference received, including interference that may cause undesired operation, and (3) the device incorporating this module shall be tested for compliance as part 15 subpart B digital device and as receiver using FCC or SDoC procedures.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.



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- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### **IC Compliance:**

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IC No.: 11205A-QSSRF319H

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, (2) this device must accept any interference, including interference that may cause undesired operation of the device and (3) the device incorporating this module shall be tested for compliance with Industry Canada RSS standards.

Cet appareil est conforme aux normes d'exemption de licence RSS d'Industry Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence, (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement et (3) l'appareil incorporant ce module doit être testé pour sa conformité aux normes RSS d'Industrie Canada.

CAN ICES-3 (B)/NMB-3(B)

This radio transmitter 11205A-QSSRF319H has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Cet émetteur radio 11205A-QSSRF319H a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antennes répertoriés ci-dessous, avec le gain maximal autorisé indiqué. Les types d'antenne non inclus dans cette liste qui ont un gain supérieur au gain maximum indiqué pour tout type répertorié sont strictement interdits pour une utilisation avec cet appareil.

This device is to be used only with the Radial Antenna provided by Qolsys that is packaged with it. This antenna has a Peak gain of 1.94 dBi providing an Omni Antenna pattern.

#### **Warranty Information:**

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**IMPORTANT!** Changes or modifications not expressly approved by Qolsys Inc. will void the user's authority to operate the equipment, as well as warranty for the product.