



100-0002 Verics™ RF Module

User's Manual

Version 0.3

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This material is preliminary

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DOCUMENT INFORMATION

Revision Description

Version 0.2 10/14/2002–Preliminary Release Version
Version 0.3 11/04/2002–Preliminary Release Version

Agency Identification Numbers

US FCC ID: QC5-09-MSS1

CAN IC ID: 4425A-09-MSS1

Note: The product approvals above are with antennas specified below.

FCC Notice

WARNING: 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, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Labeling Requirements

WARNING: The Original Equipment Manufacturer (OEM) must ensure that FCC labeling requirements are met. This includes a clearly visible label on the outside of the OEM enclosure specifying "Contains Transmitter Module, FCC ID: QC5-09-MSS1" as well as the applicable FCC labeling as required in Part 15 of the FCC regulations.

Antenna Warning

WARNING: This device has been tested for FCC compliance with the antennae listed below. When the Verics RF module is integrated in the OEM product, the selected antenna should be installed in such a manner that prevents replacement with a non-approved antenna. Use of a non-approved antenna is not allowed under FCC regulations.

Approved Antenna List

Telemics 910-0002, Integral $\frac{1}{4}$ wave monopole, 1dBi gain

Astron AXHPRAMMPTL6I, $\frac{1}{2}$ wave dipole, 2dBi gain

RF Exposure

WARNING: The 100-0002 Verics Module is approved for mobile and base station applications per FCC Section 2.1091. To satisfy FCC RF exposure requirements, the 100-0002 must be installed with one of the antennas specified in the table above and with a separation distance of 20cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operations at less than this distance is not allowed. If the OEM integrates this module into a portable device as classified per FCC Section 2.1093, the OEM is responsible for obtaining a separate authorization for the final product. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter".

The preceding statement must be included as a CAUTION statement in manuals for OEM products to alert users on FCC RF Exposure compliance.

1. 1. Overview

The 100-0002 is a wireless RF transceiver implementing the Telemics's Verics™ network technology. It is designed for operation under FCC part 15.247 regulations for the 902-928MHz ISM band. The 100-0002 is a frequency hopping spread spectrum transceiver providing asynchronous TTL level serial interface for communications. All aspects of Verics network operations, including frequency hopping, synchronization, neighbor discovery, and RF system data transmission/reception is performed by the module. This document includes the theory of operation, specifications, interface definition, configuration information and mechanical drawing. The OEM is responsible for ensuring the final product meets all FCC and/or appropriate regulatory agency requirements before selling any product.