



MODULAR APPROVAL REQUEST

January 22, 2015

TÜV SÜD BABT TCB
Octagon House
Concorde Way
Segensworth North
Fareham
Hampshire, PO15 5RL, UK

RE: FCC Modular Approval Requirements
FCC ID: Q639603N

To Whom **It** May Concern:

Please be advised that the above-referenced model be approved for modular approval in accordance with the FCC Rules and Regulations listed below with a description in *italics* following each rule:

- i) The radio elements must have the radio frequency circuitry shielded. Physical/discrete and turning capacitors may be located external to the shield, but must be on the module assembly;

All of the circuits on the radio PCB are shielded by a metal fence and lid on the top and bottom of the board.

- ii) The module must have buffered modulation/data inputs to ensure that the device will comply with Part 15 requirements with any type of input signal;

The module's serial data/fax serial interface is buffered through a UART component in the Iridium DBB ASIC. The interface signals also pass through ESD protection and EM/ suppression circuitry.

- iii) The module must contain power supply regulation on the module;

The module includes power supply regulation translation the +5V power input provided through the user interface connector into a variety of power rails used internally at voltages of +1.2V through +3.3V as per the schematic.

- iv) The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b);



The module must demonstrate a unique antenna connector as noted in the Iridium

9602N Developer's Guide and Iridium maintains a list of certified antenna which it shares with those designing products incorporating the 9602N

v) The module must demonstrate compliance in a stand-alone configuration;

The module was tested in conjunction with a basic "test interface card".

vi) The module must be labelled with its permanently affixed FCC ID label, or use an electronic display (See KDB Publication 997198 about labelling requirements);

A "product approval label" listing the module's FCC ID is affixed externally on one side of the 9602N (the "IMEI label" is affixed externally on the opposite side).

vii) The module must comply with all specific rules applicable to the transmitter. The grantee must provide comprehensive instructions to explain compliance requirements;

Instructions are provided in the Iridium 9602N Developer's Guide.

viii) The module must comply with RF exposure requirements. For any transmitters intended for use in portable devices, SAR compliance must be demonstrated to be independent of the host device. See KDB Publication 447498 Item 2) as a guide to determine if a transmitter can be tested without being limited to a host device. If SAR compliance can only be demonstrated in specific host types or platforms, then the module type must be "limited".

The module has not undergone formal SAR compliance testing at this time and is specified as limited (i.e. non-portable). The MPE RF Exposure exhibit provided demonstrates compliance to General Population limits at 20cm distance.

Thank you for your attention to this matter.

Sincerely,



Hermon Pon
VP, Technology Development and Network Engineering

