



MODULAR APPROVAL REQUEST

Thursday, 20 October 2011

TRaC Global
100 Frobisher Business Park
Leigh Sinton Road
Malvern
Worcestershire
WR14 1BX
UK

RE: FCC Modular Approval Requirements
FCC ID: Q639523

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 tuning capacitors may be located external to the shield, but must be on the module assembly;

RF and power supply circuitry is shielded by a metal lid and fence on the top side and a metal frame and conductive gasket on the bottom side.

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.

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



The module includes power supply regulation translating the VBAT input to LVTTTL internal power rails on its bottom side and power supply regulation translating the VBOOST input to the internal voltage rail driving the transmitter power amplifier on its top side. Schematics of the 9523 power regulation circuitry can be found on sheet 5 of the Iridium BOM, Schematic, and Layout (P0947-002c) document.

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 contains a unique antenna connector as noted in the Iridium 9523 Developer's Guide and Iridium maintains a list of certified antennas which it shares with those designing products incorporating the 9523.

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

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

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 label listing the module's FCC ID is affixed to the RF shield lid on the top side of the module.

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 9523 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).



Thank you for your attention to this matter.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Donna Bethea Murphy', with a long horizontal flourish extending to the right.

Donna Bethea Murphy
VP, Regulatory Engineering
Iridium Communications Inc.

