

FCC Declaration of Conformity

Intellian Technologies, manufactures of stabilized maritime VSAT antenna systems for satellite communication at sea, supplies stabilized maritime VSAT antenna systems to the satellite communication service providers for their ESV (Earth Station on Vessels) networks.

FCC §25.221 defines the provisions for blanket licensing of ESV antennas operation in the C-band. It defines the antennas radiation, and each article regulates the followings;

§25.221 (a)(1)(i)(A): Regulation for Azimuth Direction & Co Polarization
§25.221 (a)(1)(i)(B): Regulation for Other Direction & Co Polarization
§25.221 (a)(1)(i)(C): Regulation for Cross Polarization

FCC §25.222 defines the provisions for blanket licensing of ESV antennas operation in the Ku-band. It defines the antennas radiation, and each article regulates the followings;

§25.222 (a)(1)(i)(A): Regulation for Azimuth Direction & Co Polarization
§25.222 (a)(1)(i)(B): Regulation for Other Direction & Co Polarization
§25.222 (a)(1)(i)(C): Regulation for Cross Polarization

Intellian Technologies, Inc. declares that v240M complies with the threshold level as defined in §25.221(a)(1)(i)(A)/ §25.222(a)(1)(i)(A);, and declares that v240M is in accordance with all defined regulations from §25.221(a)(1)(i)(B) to §25.221(a)(1)(i)(C) / from §25.222(a)(1)(i)(B) to §25.222(a)(1)(i)(C) at the below stated input power spectral density, with an N value of 1.

Product description	Intellian v240M, 2.4m Multi-band maritime VSAT antenna system
EIRP spectral density limit	C-band: -7.415dBW/ 4KHz
	Ku-band: -14.0dBW/ 4KHz

Intellian Technologies, Inc. declares that the above antenna will maintain a pointing error of less than or equal to 0.2 degree under specified ship motion conditions in accordance with the requirements of §25.221 (a)(1)(ii) / §25.222 (a)(1)(ii).

Intellian Technologies, Inc. declares that the above antennas will automatically cease the transmission with a mute command to the modem within 100 milliseconds if the target satellite and the axis of the main lobe of the ESV antenna exceeds 0.5 degree and will not resume until such angle is less than or equal to 0.2 degree in accordance with the requirements of §25.221 (a)(1)(iii) / §25.222 (a)(1)(iii).

Radiation pattern data is available upon request to verify the conformance.

Authority: Steve Cha
Vice President, Research & Development



Signature: _____



Date: June 2, 2014