



FCC ID: WPX-ATGB
Request for transmitter modular approval

Transmitter Module Characteristics

Item	Requirements	EUT
1	Have its own RF shielding	Device is equipped with Metal shielding to cover RF section. Refer to external photos
2	Have buffered modulation/data inputs (if such inputs are provided)	All inputs to the modules are buffered.
3	Have it own power supply regulation	The device contains internal power regulation.
4	Meet the antenna requirements of Section 15.203	<p>The device is used in professional installations.</p> <p>Appropriate RF loss between the module and the antennas will be installed to operate within FCC ERP limits. The required losses for the different antennas are: Omni (Small): 1.1 dB Omni (Large): 4.4 dB Side Mount: 3.4 dB</p>
5	Be tested in a stand-alone configuration, i.e., the antenna, AC or DC power and data input/output lines must be connected to the module but, the module must not be inside another case during testing	Device was tested stand-alone configuration.
6	Be labeled with its own FCC ID number, and if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module.	Two proposed FCC ID label format are included in the filing. One of label is to be placed on the module and the other label is to be placed on the outside of the host.

7	The modular transmitter is manufactured so that the user cannot influence the operation of the transmitter that will operate outside of the scope of the regulations.	<p>The module is intalled exclusively within Gogo's avionics products for use within Gogo's Air-To-Ground Network.</p> <p>Gogo's software functions control the operation of the module to operate within FCC rules.</p>
8	Address compliance with the Commission's RF exposure limits in Sections 1.1310 and 2.1093. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF exposure compliance in accordance with Section 15.247(b)(4).	<p>See SAR test report</p> <p>The antennas are installed external to the aircraft. To maintain the RF safety exposure of 52 cm, Gogo's software prohibits transmission when the aircraft is on the ground.</p>