

Athena-GTX, Inc. addendum

Model 471-0011-05, FCC ID: 2AVRK-BMD301, is configured in a specific singular modular use configuration, this addendum is created to support changes. Information in this addendum is designed to replace FCC publication 996369 related information on *uBlox LLC Users Manual BMD-300-DS-V0.9.4 dated 03/23/2016*, except where specifically stated.

Reference uBlox LLC Users Manual BMD-300-DS-V0.9.4 dated 03/23/2016 or greater for additional user guide information.

FCC publication 996369 related information

In publication 996369 section D03, the FCC requires information concerning a module to be presented by OEM manufacturers. This section assists in answering or fulfilling these requirements.

2.1 General

No requirements are associated with this section.

2.2 List of applicable FCC rules

This module conforms to FCC Part 15.249.

2.3 Summarize the specific operational use conditions

For the uBlox BLE Module, see FCC approved antennas (2.4 GHz) identified in section 2.7 of this addendum.

Once integrated with the Host Device, the BLE module will communicate (TX/RX) using 2.4 GHz at the default power setting (0dBm), duty cycle <1% while simultaneously a co-located with an additional BLE module and Wi-Fi module that communicates (TX/RX) with accessory devices also utilizing a duty cycle <1%. Modules will be in portable use, <20 cm proximity to user's body.

Users are not permitted to modify antenna or alter pre-defined Host or Module configuration settings, outside of connecting and disconnect other devices.

BLE modules authorized to be used in co-location with Model 471-0011-05 BLE Module identified above are, a second BLE radio FCC IDs: 2AVRK-BMD301.

Wi-Fi modules authorized to be used in co-location with Model 471-0011-05 BLE Module identified above are, a Wi-Fi radio FCC IDs: 2AVRK-XBS6BTH.

2.4 Limited module procedures

Not applicable.

2.5 Trace antenna designs

Not applicable.

2.6 RF exposure considerations

See conditions in Section 2.3 above that allow for use <20cm proximity to the user's body and simultaneous transmission with an additional BLE radio and WiFi radio.

2.7 Antennas

The Taoglas FXP73.07.0100A, 2.5dBi, 1/4 Wave Dipole – Flex 7mm x 47mm x 0.1mm (or equivalent specification) antenna is approved to be used for this module.

2.8 Label and compliance information

A physical label stating “Contains FCC ID: 2AVRK- BMD301”, shall be used on the outside of the enclosure of the host product.

2.9 Information on test modes and additional testing requirements

Devices shall be reviewed under configured max operational settings (standard use) for SAR, Spurious Radiated Emissions. Unintentional Radiators is also required for review, however, due to setting requirements (RF modules disabled), only Athena GTX Inc. is permitted to configure a test unit for this mode.

When testing for all, except for Unintentional Radiators, BLE must be tested after a connection with a partnering device is established and information is transmitting. Additionally, Wi-Fi and BLE shall be co-located, as such, it needs to be paired with a compatible device to allow RF traffic.

Antenna power, duty cycle, and transmission rate cannot be altered from approved settings, see RF Exposure report for technical information.

2.10 Additional testing, Part 15 Subpart B disclaimer

Not applicable, see this section in original uBlox LLC Users Manual BMD-300-DS-V0.9.4 dated 03/23/2016 or greater.