

List of applicable FCC rules:

The module complies with FCC Part 15.247 DTS Bluetooth Low Energy.

Summarize the specific operational use conditions:

The module has been certified for Fix, Mobile applications.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Limited module procedures:

This module is limited to Hornby Corporation use ONLY.

The module has no RF shielding and will be installed in toy track car.

Installation Notes:

- 1) HM7000-6/8 Module Power supply range is DC 14V~16V, when you use HM7000-6/8 Module design product, the power supply cannot exceed this range.
- 2) Make sure the module pins correctly installed.
- 3) Make sure that the module does not allow users to replace or demolition
- 4) Any modifications to the module model HM7000-6/8 may invalidate regulatory approvals or may necessitate notifications to the relevant regulatory authorities.
- 5) Any changes which may require the Class I or Class II permissive changes for the FCC.
- 6) The Class II permissive changes is required for each specific host installation
- 7) Test plan for Class II permissive changes (C2PC)
 1. Conducted Emission AC Power Port (FCC Part 15.207)
Test mode 1: BLE 1M GFSK-2402MHz
Test mode 2: BLE 1M GFSK-2440MHz
Test mode 3: BLE 1M GFSK-2480MHz
 2. Antenna Port Conducted Output Power (FCC Part 15.247(b))
Test mode 1: BLE 1M GFSK-2402MHz
Test mode 2: BLE 1M GFSK-2440MHz
Test mode 3: BLE 1M GFSK-2480MHz
Note: Test that the conducted power range must be 7 - 8dBm, If a new installed host that Conducted Power exceeding 8.7dBm, a new grantee must be required
 3. Radiated Emission (FCC Part 15.205, FCC Part 15.209 and FCC Part 15.247(d))
Test mode 1: BLE 1M GFSK-2402MHz
Test mode 2: BLE 1M GFSK-2440MHz
Test mode 3: BLE 1M GFSK-2480MHz

Note: These tests be based on C63.10 and FCC Part 15.247 as guidance, according to the operating frequency High, mid and low channel test.

Trace Antenna Designs:

N.A

RF exposure considerations

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction

with any other antenna or transmitter, End-Users must be provided with transmitter operation conditions for satisfying RF exposure compliance.

Antenna:

The module has Chip antenna; Max 1.9dBi

Label and compliance information

The HM7000-6/8 module is designed to comply with the FCC statement. FCC ID is 2ACUF-HM700068. The host system using HM7000-6/8 should have label indicated it contain modular's FCC ID : 2ACUF-HM700068.

This radio module must not installed to co-locate and operating simultaneously with other radios in host system, additional testing and equipment authorization should be required to operating simultaneously with other radio.

The HM7000-6/8 module is designed to comply with the ISED statement. The module ID is 12075A- HM700068. The host system using HM7000-6/8, should have label indicated it contain modular's IC : 12075A- HM700068.

This radio module must not installed to co-locate and operating simultaneously with other radios in host system, additional testing and equipment authorization should be required to operating simultaneously with other radio.

Le module HM7000-6/8 est conçu pour se conformer à la déclaration ISDE. Le numéro d'identification du module est 12075A- HM700068. Le système hôte utilisant HM7000-6/8 doit avoir une étiquette indiquant qu'il contient l'IC modulaire: 12075A- HM700068.

Ce module radio ne doit pas être installé pour co-localiser et fonctionner simultanément avec d'autres radios dans le système hôte, des tests supplémentaires et une autorisation d'équipement peuvent être nécessaires pour fonctionner simultanément avec d'autres radios.

Information on test modes and additional testing requirements

When testing host product, the host manufacture should follow FCC KDB Publication 996369 D04 Module Integration Guide for testing the host products. The host manufacturer may operate their product during the measurements.

Additional testing, Part 15 Subpart B disclaimer:

The modular transmitter is only FCC authorized for the specific rule parts (FCC Part 15.247) list on the grant, and that the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed when contains digital circuitry.

Note EMI Considerations:

When testing host product, the host manufacture should follow FCC KDB Publication 996369 D04 Module Integration Guide for testing the host products.

How to make changes

This module is limited to Hornby Corporation use ONLY.