AMIMON AMNPTTX01 Transmission Module User Manual

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The AMNPTTX01 and AMN42012 modules can’t be bought off-the-shelf.

This section is intended to guide host manufacturer integrating the AMNPTTX01 and AMN42012 modules inside their end products with the regulatory requirements.

Host integrators must comply with the following requirements when operating in the UNII5 band:

Contents

Modifications

- Any changes or modifications not expressly approved by AMIMON or the party responsible for compliance could void the user's authority to operate the equipment and invalidate the regulatory approval.
- Host manufacturer must follow KDB Publication 996369 D04 Module Integration Guide.
- Host manufacturer is responsible for regression tests to show compliance to the applicable standards due to the following actions:
  - any modification done to the module.
    Integration of the module into a host device
- 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.
- Final host product is required to show compliance to Part 15 Subpart B with the modular transmitter installed

Usage Conditions: The OEM must define uses/conditions of at least 20 cm from user's body.

Label Requirements

Label on the host device must be permanently attached to a non-removable exterior portion of the host device.

The OEM must add the following statements on the labels:

"FCC/ISED Regulations restrict operation of this device to Indoor Use Only"

- "Operation on oil platforms, cars, trains, boats and aircraft shall be prohibited except for on large aircraft flying above 10,000 ft.
- FCC ID/IC Information (unless change ID is pursued):
  - For host devices containing VQSAMNPTTX01, the label should state: "contains: FCC ID: VQSAMNPTTX01 IC: 7680A-AMNPTTX01"
  - For host devices containing VQSAMN42012, the label should state: "contains: FCC ID: VQSAMN42012 IC: 7680A-AMN42012"
- e-label is permitted on devices qualifying for e-label per KDB 784748

Antenna Requirements

- The following antennae were approved with the modules:

RadioFCC ID	Antenna Information				
	Model	**Type**	**Gain**	**Location**	**impedance**
VQSAMNPTTX01	AMN_ANT_1010	Dipole	2dBi Typical at 5-7.5GHz	External	50Ω
VQSAMNPTTX01	AMN_ANT_1012-0	dipole	0dBi Typical at 5-7.3GHz	Internal	50Ω
VQSAMN42012	AMN_ANT_1010	Dipole	2dBi Typical at 5-7.5GHz	External	50Ω
VQSAMN42012	AMN_ASM_1011	mushroom	2dBi Typical at 5-7.3GHz	External	50Ω

- The product is provided with an approved antenna. Use only supplied or approved antenna by AMIMON. Any changes or modifications to the Antenna may void the regulatory approvals obtained for the product.
- Host device must comply with FCC Part 15 antenna requirements
- The OEM must design the host so that the antenna will be installed as an integrated antenna for the host containing the AMNPTTX01 and the end user shall not be able to access, remove or replace the antenna.

Manual Requirements: Manual to the end user must contain the following statements:

Antenna Requirements

- **FCC:**
  The following antennae were approved with the modules listed in the Antenna Information table.
- Industry Canada
  The radio transmitters 7680A-AMNPTTX01, and 7680A-AMN42012 have been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated.

Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication

RadioFCC ID	Antenna Information				
	Model	**Type**	**Gain**	**Location**	**impedance**
VQSAMNPTTX01	AMN_ANT_1010	Dipole	2dBi Typical at 5-7.5GHz	External	50Ω
VQSAMNPTTX01	AMN_ANT_1012-0	Dipole	0dBi Typical at 5-7.3GHz	Internal	50Ω
VQSAMN42012	AMN_ANT_1010	Dipole	2dBi Typical at 5-7.5GHz	External	50Ω
VQSAMN42012	AMN_ASM_1011	mushroom	2dBi Typical at 5-7.3GHz	External	50Ω

- The product is provided with an approved antenna. Use only supplied or approved antenna by AMIMON. Any changes or modifications to the Antenna may void the regulatory approvals obtained for the product.
- Host device must comply with FCC Part 15 antenna requirements
- The OEM must design the host so that the antenna will be installed as an integrated antenna for the host containing the AMNPTTX01 and the end user shall not be able to access, remove or replace the antenna.

RF Exposure

- FCC Statement
  This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.
  This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter
- Industry Canada Statement

IMPORTANT NOTE:

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

NOTE IMPORTANTE:

Unintentional Radio Interference

- FCC Statement
  Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular

installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

- Canada Statement CAN ICES-3 B / NMB-3 B

Radio Transmitters

- General
  - Operation of these devices in the 5.925-6.425 GHz band is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet.
  - Operation of these devices in the 5.925-6.425 GHz band is prohibited for control of or communications with unmanned aircraft systems.
  - Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
  - In the 5.925-6.425 GHz band, devices containing AMN42012 (which is a client device) must operate under the control of a device containing the AMNPTTX01 which is an indoor access point. In all cases, an exception exists for transmitting brief messages to an access point when attempting to join its network after detecting a signal that confirms that an access point is operating on a particular channel. Access points may connect to other access points. Client devices are prohibited from connecting directly to another client device.
- FCC Statement

Radio Transmitters (Part 15) – Class B Digital Devices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC regulations restrict operation of these devices in the 5.925-6.425 GHz band to indoor use only

- Canada Statement
  This device complies with RSS-248 of the Industry Canada Rules. Operation is subject to the following two conditions: **(1)** This device may not cause harmful interference, and **(2)** this device must accept any interference received, including interference that may cause undesired operation of the device.

Caution:

Operation shall be limited to indoor use only;

Operation on oil platforms, cars, trains, boats and aircraft shall be prohibited except for on large aircraft flying above 10,000 ft.

Enclosure Requirements: Host devices containing the AMNPTTX01 module and operating in the UNII5 is prohibited from having a weatherized enclosure.

Usage Requirements:

- Host devices containing the AMNPTTX01 module and operating in the UNII5 must be powered by wired connection such as AC adapter (battery use is not allowed).
- AMNPTTX01 and AMN42012 do not have a battery backup.
- If host devices containing AMNPTTX01 module are designed to have a battery backup, the use of the backup battery should only be allowed during power outages and for indoor use.
- Host devices containing AMN42012 are prohibited from direct connection to the internet.

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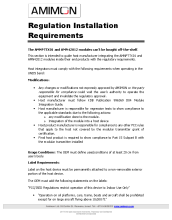	**AMIMON AMNPTTX01 Transmission Module** [pdf] User Manual AMNPTTX01, VQSAMNPTTX01, AMN42012, AMNPTTX01 Transmission Module, AMNPTTX01, Transmission Module, Module
	**AMIMON AMNPTTX01 Transmission Module** [pdf] Installation Guide AMNPTTX01, VQSAMNPTTX01, AMN42012, AMNPTTX01 Transmission Module, AMNPTTX01, Transmission Module, Module

References

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