



User Guide

Panasonic Model P/N: M120000011

Wireless 802.11 LAN Module

FCC ID: U6Y-M12011

Rev. C

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1. Scope

This document describes overview of Panasonic Wireless LAN module p/n: M12000001, and its implementation note for the manufacturer using the module.

2. Operational description

Panasonic Wireless LAN module p/n: M12000001 conforms to IEEE 802.11a, operating between 5180.0 to 5240 MHz on unlicensed bands exclusively on non-DFS channels 36, 40, 44, & 48.

3. Implementation note

Panasonic Wireless LAN module p/n: M12000001 is designed as a module to be placed onto a host PCBA.

Panasonic Wireless LAN module p/n: M12000001 is designed to operate with a custom antenna not available to the public. The antenna listed as follows. The maximum gain of the antenna is -2.21dBi. The antenna impedance is 50 ohms.

Antenna:

Part Number	Manufacturer	Type	Gain (dBi)
A501000114	Panasonic Corporation	PIFA	-2.21

4. Installation and availability

Panasonic Wireless LAN module p/n: M12000001 is a sub assembly that is professionally assembled into passenger aircraft avionics by trained installers qualified to service aircraft. This product is custom made specifically for passenger aircraft cabins to provide short range 802.11a connectivity to passenger(s) within close proximity, and is not listed or offered for sale to the general public.

5. FCC Regulatory

Documentation & Labeling Requirements

When integrating the Panasonic Wireless LAN module p/n: M12000001 into the product, the manufacturer shall meet the documentation requirements of FCC. The following outlines the information that may be included in the user's guide and external labels for the product integrating Panasonic Wireless LAN module p/n: M12000001.

FCC Note on Module Labelling:

The module must be labelled with its permanently affixed FCC ID:

"FCC ID: U6Y-M12011".



FCC Note on Labelling the product containing the module:

Manufacturer shall place the following wording on the product containing the module, and it shall be visible by the customer at the time of purchase.

“Contains FCC ID: U6Y-M12011”

User's Guide Requirements:

Panasonic Wireless LAN module p/n: M12000001 FCC Part 15 Rules for a Modular Approval. The transmitter module must not be located close to any other transmitter or antenna.

With the above condition, no other testing is required, but the manufacturer must still have responsibility for the product compliance. In case the above conditions are not met, the FCC authorization is no longer valid and FCC ID is not allowed to be used. For this reason, manufacturer must have responsibility for the compliance of end product.

When manufacturer uses the Panasonic Wireless LAN module p/n: M12000001 module, it must include specific information into user guide of the product. And manufacturer must not include information how to install or remove this module in user guide. Manufacture must also put the following FCC statements without any modification at prominent place in user guide.

Federal Communication Commission Interference Statement

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.

FCC Caution:

Any changes or modifications not expressly approved by Panasonic Avionics Corporation could void the user's authority to operate this equipment.

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.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

6. General Comments

- There are no user serviceable parts.
- Service can only be performed by qualified persons.
- There are no components requiring tune up.

7. Radio Specification

- Power Supply to Radio: 3.3VDC ~ 1.8VDC
- Antenna Type: PIFA Antenna
- Antenna Gain: -2.1dBi