

User's Manual for PQC-WMTS-BBN1

Product: 1.4 GHz Module PQC-WMTS-BBN1 for use in Philips Medical Monitors

Wireless Module Model: PQC-WMTS-BBN1

For Philips integration only – this device cannot be sold to the general public

FCC ID: PQC-WMTS-BBN1

The Philips device that integrates this module PQC-WMTS-BBN1 must include the following notice on the device and in the User's Manual.

The following are the required elements of a User Manual as referenced from 996369 D03 OEM Manual
v01r01

Requirement 2.2. List of Applicable FCC rules:

47 CFR Part 95 Subpart H – Wireless Medical Telemetry Service

47 CFR Part 27 Subpart I- Miscellaneous wireless communications services

Requirement 2.3- Summary of specific operational use conditions:

The device incorporating module PQC-WMTS-BBN1 are limited by the following rules .

From 47 CFR, Subpart H:

Authorized Users

Eligible WMTS users are limited to authorized health care providers, which include licensed physicians, health care facilities, and certain trained and supervised technicians. The healthcare facilities eligible for the WMTS are defined as those where services are offered for use beyond 24 hours, including hospitals and other medical providers. Ambulances and other moving vehicles are not included within this definition.

Service Rules

The service rules for the equipment and use of the WMTS include limitations on transmitter output power, out-of-band emissions, and protection of other services. Users of the WMTS are co-primary with the radio astronomy service operating in the 1395 – 1400, and 1427 – 1432MHz frequency range and must not disrupt radio astronomy operations. WMTS users are required to obtain written

permission to transmit within 80 km (50 miles) of some radio astronomy facilities and within 32 km (20 miles) of other radio astronomy facilities. The Frequency Coordinator maintains information to help the WMTS co-primary users avoid conflicts. Healthcare facilities using the frequency are required to register with ASHE.

Wireless Medical Telemetry Service | ASHE

In the band 1427-1432 MHz, Federal use of the land mobile service and non-Federal use of the fixed and land mobile services is limited to telemetry and telecommand operations as described further:

(i) **Medical operations.** The use of the band 1427-1432 MHz for medical telemetry and telecommand operations (medical operations) shall be authorized for both Federal and non-Federal stations.

(A) Medical operations shall be authorized in the band 1427-1429.5 MHz in the United States and its insular areas, except in the following locations: Austin/Georgetown, Texas; Detroit and Battle Creek, Michigan; Pittsburgh, Pennsylvania; Richmond/Norfolk, Virginia; Spokane, Washington; and Washington DC metropolitan area (collectively, the “carved-out” locations). See Section [47 CFR 90.259\(b\)\(4\)](#) for a detailed description of these areas.

(B) In the carved-out locations, medical operations shall be authorized in the band 1429-1431.5 MHz.

(C) Medical operations may operate on frequencies in the band 1427-1432 MHz other than those described in [paragraphs \(c\)\(350\)\(i\)\(A\)](#) and [\(B\)](#) of this section only if the operations were registered with a designated frequency coordinator prior to April 14, 2010.

Requirement 2.4 – Limited Modular procedure

Not applicable – This is not a limited module.

Requirement 2.5 – Trace antenna design

Not applicable – This module does not have trace antennas.

Requirement 2.6 – RF exposure considerations

1. The module is eligible to be used in portable devices
2. According to KDB 447498 v01 (Interim General RF Exposure Guidance: RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices) the RF Exposure Test Exemptions applies. Result: All ratios are below 1 ($\leq 100\%$). Certification can be obtained without the need of showing data (measurements, or analytical/numerical modeling) to demonstrate RF Exposure compliance.
3. Minimum separation distance to the human body if 15 mm.

Requirement 2.7 – Antennas

Part number: 453564271931 , max gain -2.4 dBi @ 1400 MHz

Part number: 453564682551 , max gain -8.7 dBi @ 1400 MHz

Part number : 453564521801 , max gain -8.7 dBi @ 1400 MHz

Requirement 2.8 – Label and compliance information

The following notices as required by FCC and must be placed on the product and in the User Manual.

Label requires: Contains FCC ID: PQC-WMTS-BBN1

User Manual Requires the following statement

This device complies with Part 27 and/or Part 95 of the FCC Rules.

Requirement 2.9 – Information on test modes and additional testing requirements

Testing of the end device with all the radio frequency modules installed is recommended, to verify that the end device meets all the applicable FCC rules. The radio spectrum is to be investigated with all the transmitters in the final end product functioning to determine that no emissions exceed the highest limit permitted for any one individual transmitter as required by Section 2.947(f). A formal application for certification submission containing the results of this investigation is not required. The end device is responsible to ensure that when the product operates as intended it does not have any emissions present that are out of compliance that were not present when the transmitters were tested individually

Requirement 2.10 – Additional testing, Part 15 Subpart B disclaimer

The module is **only** FCC Authorized for the specific rules listed on the grant for PQC-WMTS-BBN1

End device requires testing to Part 15 subpart B compliance testing with the modular transmitter installed.

Requirement 2.11 – note EMI Considerations:

Make considerations from the “Modular Transmitter Integration Guide, Guidance for Host Product Manufacturers.

https://apps.fcc.gov/kdb/GetAttachment.html?id=bNCiEdkFEKnHsZF9GHCNdg%3D%3D&desc=996369%20D04%20Module%20Integration%20Guide%20V02&tracking_number=44637

Requirement 2.12 – How to make changes:

Contact the internal Philips radio frequency organization for any requested or required changes to the module.