

CLASSIFICATION Einstufung	PRODUCT SPECIFICATION Produktspezifikation	No. DS-1x55-2400-102	REV. 0.91
SUBJECT Thema	CLASS 2 BLUETOOTH MODULE Bluetooth Modul der Klasse 2	PAGE Seite	30 of 32
CUSTOMER'S CODE PAN1455/1555	PANASONIC'S CODE ENW89815C3KF/ENW89815A3KF	DATE Datum	30.03.2009

27. REGULATORY INFORMATION

27.1. FCC NOTICE



The device PAN1555, including the ceramic antenna (ENW89815C3KF) and also the SMD type PAN1455 (ENW89815A3KF), including with the antennas, which are listed in 27.5, complies with Part 15 of the FCC Rules. The device meets the requirements for modular transmitter approval as detailed in FCC public Notice DA00-1407.transmitter 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.

27.2. CAUTION



The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Panasonic Electronic Devices Europe GmbH may void the user's authority to operate the equipment.

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

27.3. LABELING REQUIREMENTS



The Original Equipment Manufacturer (OEM) must ensure that FCC labeling requirements are met. This includes a clearly visible label on the outside of the OEM enclosure specifying the appropriate Panasonic FCC identifier for this product as well as the FCC Notice above. The FCC identifier are **FCC ID: T7V-BC06**. This FCC identifier is valid for both versions, for details, please see the chapter 24. Ordering Information.

In any case end product must be labelled exterior with "Contains FCC ID: T7V-BC06"

27.4. ANTENNA WARNING



The related part number for this device is ENW89815A3KF (PAN1455 with SMD pad). For details, please see the chapter 24. Ordering Information. This device are tested with a standard SMA connector and with the antennas listed below. When integrated in the OEMs product, these fixed antennas require installation preventing end-users from replacing them with non-approved antennas. Any antenna exceeding 2dBi not in the following table must be tested to comply with FCC Section 15.203 for unique antenna connectors and Section 15.247

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for emissions. The FCC identifier for this device with the antenna listed in item 1 are the same (FCC ID: T7V-BC06).

27.5. APPROVED ANTENNA LIST

Note: We are able to qualify your antenna and will add to this list as that process is completed.

Item	Part Number	Manufacturer	Frequency Band	Type	Gain (dBi)
1	WIMO17010.10	Wimo	2.4GHz	ROD	+2
2					

27.6. RF EXPOSURE PAN1455/PAN1555



To comply with FCC RF Exposure requirements, the Original Equipment Manufacturer (OEM) must ensure that the approved antenna in the previous table must be installed.

The preceding statement must be included as a CAUTION statement in manuals for products operating with the approved antennas in the previous table to alert users on FCC RF Exposure compliance.

Any notification to the end user of installation or removal instructions about the integrated radio module is not allowed.

The radiated output power of PAN1455 with mounted ceramic antenna (FCC ID: T7V-BC06) is far below the FCC radio frequency exposure limits. Nevertheless, the PAN1455 shall be used in such a manner that the potential for human contact during normal operation is minimized.

End users may not be provided with the module installation instructions. OEM integrators and end users must be provided with transmitter operating conditions for satisfying RF exposure compliance.

27.7. INDUSTRY CANADA CERTIFICATION

PAN1455/PAN1555 comply with the regulatory requirements of Industry Canada (IC), license:
IC: 216Q-BC06

Manufacturers of mobile, fixed or portable devices incorporating this module are advised to clarify any regulatory questions and ensure compliance for SAR and/or RF exposure limits. Users can obtain Canadian information on RF exposure and compliance from www.ic.gc.ca

This device has been designed to operate with the antenna listed in section 27.5 above, having a maximum gain of 2.0 dBi. Antennas not included in this list or having a gain greater than 2.0 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms. The antenna used for this transmitter must not be colocated or operating in conjunction with any other antenna or transmitter.

28. RELATED DOCUMENTS

Mitgeltende Dokumente

[1] BlueRS+_ATCommand_Reference

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29. GENERAL INFORMATION

Allgemeine Informationen

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This product description does not lodge the claim to be complete and free of mistakes.

Please contact the related product manager in every case.

If we deliver ES samples to the customer, these samples have the status Engineering Samples. This means, the design of this product is not yet concluded. Engineering Samples may be partially or fully functional, and there may be differences to be published Data Sheet.

Engineering Samples are not qualified and are not to be used for reliability testing or series production.

Disclaimer:

Customer acknowledges that samples may deviate from the Data Sheet and may bear defects due to their status of development and the lack of qualification mentioned above.

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- deviation or lapse in function of Engineering Sample,
- improper use of Engineering Samples.

Panasonic disclaims any liability for consequential and incidental damages.

In case of any questions, please contact your local sales partner or the related product manager.

30. LIFE SUPPORT POLICY

Politik für Lebenserhaltungssysteme

This Panasonic product is not designed for use in life support appliances, devices, or systems where malfunction can reasonably be expected to result in a significant personal injury to the user, or as a critical component in any life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness. Panasonic customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panasonic for any damages resulting.