



**Telecommunications & Telematics  
for Transports Lab.**

# TEST REPORT

Ref. No. ARSH00144/1

Date: 2007-10-12

According with:



**FCC Rules: Code of Federal Regulations (CFR) no. 47 -  
PART 15 – UNLICENSED MODULAR TRANSMITTER APPROVAL  
PUBLIC NOTICE: DA 00-1407**

PRODUCT : ZigBee module general purpose

TESTED MODEL : NANOZB-R01

FCC ID : UKMNZB01

APPLICANT : EMILAB S.r.l. – Via Jacopo Linussio, 1- 33020 Amaro (UD) - Italy

MANUFACTURER : EUROTECH S.p.A. – Via F. Solari, 3/A – 33020 Amaro (UD) - Italy

TRADEMARK : EUROTECH

OTHER INFORMATION

Testing dates : 2007-09-18 ÷ 2007-09-19

Tested samples No. : 1

Testing Laboratory : IMQ S.p.A. Via Quintiliano, 43 I-20138 MILANO

Prepared by: R. Colombo  
(EMC and R&TTE Lab deputy)

Signature:

## Revision Sheet

Release No.	Date	Revision Description
Rev. 0	2007-10-12	First emission

*NOTICE: The results of tests and checks reported in this Test Report refer exclusively to the samples tested and described in the Report itself. This report shall not be reproduced partially or in its entirety without the written approval of IMQ S.p.A.*

**IMQ S.p.A. - Via Quintiliano, 43 – I-20138 MILANO**

## REFERENCE STANDARDS

### According to :

PUBLIC NOTICE :	DA 00-1407	Part 15 Unlicensed Modular Transmitter Approval
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Released	: June 26, 2000
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## MODULE-TYPE DEVICE APPROVAL OPTIONS:

- Modular Approval (MA)
- Limited Modular Approval (LMA)

## REQUIREMENTS

The following requirements are fulfilled:

**1) The modular transmitter must have its own RF shielding:**

The radio portion of the module is contained in its own RF shielding.

**2) The modular transmitter must have buffered modulation/data inputs:**

The module board has a memory management unit inside of the IC.

**3) The modular transmitter must have its own power supply regulation:**

The IC contains an own voltage regulation. In case of changes in the supply voltage VCC (for example caused by temperature changes or other effects), the internal voltage will be stabilized.

**4) The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204:**

The RF module board is for OEM (Original Equipment Manufacturer) integration only. The end-user product will be installed in such a manner that only the authorized antenna is used.

**5) The modular transmitter must be tested in a stand-alone configuration:**

The RF module board was tested in a stand-alone configuration.

**6) The modular transmitter must be labelled with its own FCC ID number:**

The RF module board will be labelled with its own FCC ID number. When the module is installed inside the end-product, the label is not visible. The OEM manufacturer is instructed how to apply the exterior label.

- 7) The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements:**

The EUT is compliant with all applicable FCC rules. Detail instructions are given in the product Users Guide.

- 8) The modular transmitter must comply with any applicable RF exposure requirements.**

The EUT operates at low power level so it does not exceed the Commission's RF exposure guidelines limits; furthermore, Spread spectrum transmitters operate according to the Section 15.247 are categorically excluded from routine environmental evaluation.

RF exposure limit warning or SAR test are not required.