

**Produkte**  
*Products*
**Prüfbericht - Nr.:** **14036228 001**
*Test Report No.:*
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**Auftraggeber:** **Remotec Technology Ltd.**  
*Client:* Room 2907 – 2908, Skyline Tower, 39 Wang Kwong Road,  
 Kowloon Bay, Kowloon, Hong Kong

**Gegenstand der Prüfung:** **Z-Wave to AC IR Extender**  
*Test Item:*
**Bezeichnung:** **BW8377US** **Serien-Nr.:** **Engineering sample**  
*Identification:* *Serial No.:*
**Wareneingangs-Nr.:** **A000071136-001,** **Eingangsdatum:** **07.06.2014**  
*Receipt No.:* *A000071136-002* *Date of Receipt:*
**Zustand des Prüfgegenstandes bei Anlieferung:** **Test sample(s) is/are not damaged and suitable for testing.**  
*Condition of test item at delivery:*
**Prüfort:** **Global United Technology Services Co., Ltd.**  
*Testing Location:* 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China

**Prüfgrundlage:** **FCC Part 15 Subpart C**  
*Test Specification:* **FCC Part 15 Subpart B**  
**ANSI C63.4-2003**
**Prüfergebnis:** **Das vorstehend beschriebene Gerät wurde geprüft und entspricht oben genannter Prüfgrundlage.**  
*Test Results:* The above mentioned product was tested and **passed**.

**Prüflaboratorium:** **TÜV Rheinland Hong Kong Ltd.**  
*Testing Laboratory:* 8 - 10/F., Goldin Financial Global Square, 7 Wang Tai Road, Kowloon Bay, Kowloon, Hong Kong

**geprüft/ tested by:**

 27.06.2014 **Benny Lau**  
*Datum* *Name/Stellung*  
*Date* *Name/Position*

*Unterschrift*  
*Signature*
**kontrolliert/ reviewed by:**

 27.06.2014 **Hugo Wan**  
*Datum* *Name/Stellung*  
*Date* *Name/Position*

*Unterschrift*  
*Signature*
**Sonstiges:**  
*Other Aspects*
**FCC ID: M7N-BW8377**
**Abkürzungen:** **P(pass)** = entspricht Prüfgrundlage  
**F(all)** = entspricht nicht Prüfgrundlage  
**N/A** = nicht anwendbar  
**N/T** = nicht getestet

**Abbreviations:** **P(pass)** = *passed*  
**F(all)** = *failed*  
**N/A** = *not applicable*  
**N/T** = *not tested*

**Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.**

*This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

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## Test Summary

### Conducted Emissions

*Result: Pass*

### 20dB bandwidth

*Result: Pass*

### Radiated Emission of Carrier Frequency

*Result: Pass*

### Spurious Radiated Emissions

*Result: Pass*

## Product information

### Manufacturers declarations

|   | <b>Transceiver</b>   |
|---|--|
| Operating frequency range               | 908.42 MHz   |
| Type of modulation                      | GFSK   |
| Number of channels                      | 1  |
| Type of antenna                         | Integral   |
| Power level                             | fix  |
| Connection to public utility power line | No   |
| Nominal voltage                         | V <sub>nor</sub> : 5.0 Vdc (USB) and/ or 4.5Vdc (3 x 1.5V AAA) |

### Product function and intended use

The equipment under test (EUT) is a Z-wave transceiver operating at 908.42 MHz. It is powered by 5.0 Vdc (USB) and/ or 4.5Vdc (3 x 1.5V AAA batteries). The USB port is used for power supply only.

FCC ID: M7N-BW8377

| <b>Models</b> | <b>Product description</b> |
|---------------|----------------------------|
| BW8377US      | Z-wave transceiver         |

### Submitted documents

Circuit Diagram  
Block Diagram  
Bill of material  
User manual  
Rating Label

### Independent Operation Modes

The basic operation modes are:

- Z-wave communication link maintained with data transfer.

For further information refer to User Manual

### Related Submittal(s) Grants

This is a single application for certification of the transmitter.  
The receiving portion is authorized under the verification procedure.

### Remark

- None.

## Test Set-up and Operation Mode

### Principle of Configuration Selection

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### Test Operation and Test Software

Test operation should refer to test methodology.

- There was no special software to exercise the device.

### Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

- none

### Countermeasures to achieve EMC Compliance

- none

## Test Methodology

### Radiated Emission

The radiated emission measurements were performed according to the procedures in ANSI C63.4-2003.

The equipment under test (EUT) was placed at the middle of the 80 cm height turntable, and the turntable is 3 meters far from the measuring antenna. During the testing, the EUT was operated standalone and arranged for maximum emissions. The EUT was tested in three orthogonal planes.

The investigation is performed with the EUT rotated 360 °, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained.

All radiated tests were performed at an antenna to EUT with 3 meters distance, unless stated otherwise in particular parts of this test report.

### Field Strength Calculation

The field strength at 3 m was established by adding the meter reading of the spectrum analyzer to the factors associated with antenna correction factor, cable loss, preamplifiers and filter attenuation.

The equation is expressed as follow:

$$FS = R + AF + CF + FA - PA$$

Where FS = Field Strength in dBuV/m at 3 meters.  
R = Reading of Spectrum Analyzer in dBuV.  
AF = Antenna Factor in dB.  
CF = Cable Attenuation Factor in dB.  
FA = Filter Attenuation Factor in dB.  
PA = Preamplifier Factor in dB.

FA and PA are only be used for the measuring frequency above 1 GHz.

## List of Test and Measurement Instruments

**Global United Technology Services Co., Ltd. (Registration number: 600491)**

| <b>Radiated Emission</b>   |                     |                          |                  |                      |
|----------------------------|---------------------|--------------------------|------------------|----------------------|
| <b>Equipment</b>           | <b>Manufacturer</b> | <b>Type</b>              | <b>Cal. Date</b> | <b>Cal. Due Date</b> |
| 3m Semi- Anechoic Chamber  | ZhongYu Electron    | 9.0(L)*6.0(W)*<br>6.0(H) | April. 6 2013    | April. 5 2015        |
| Control Room               | ZhongYu Electron    | 6.2(L)*2.5(W)*<br>2.4(H) | N/A              | N/A                  |
| ESU EMI Test Receiver      | Rohde & Schwarz     | ESU26                    | June. 29 2013    | June. 28 2014        |
| Loop Antenna               | Zhinan              | ZN30900A                 | June. 29 2013    | June. 28 2014        |
| Bi-log Hybrid Antenna      | SCHWARZBECK         | VULB9163                 | Mar. 09 2014     | Mar. 08 2015         |
| Double-ridged horn antenna | SCHWARZBECK         | 9120D                    | Mar. 09 2014     | Mar. 08 2015         |
| Horn Antenna               | ETS-LINDGREN        | 3160-09                  | Mar. 09 2014     | Mar. 08 2015         |
| RF Amplifier               | HP                  | 8347A                    | June. 29 2013    | June. 28 2014        |
| RF Amplifier               | HP                  | 8349B                    | June. 29 2013    | June. 28 2014        |
| EMI Test Software          | AUDIX               | E3                       | N/A              | N/A                  |
| Coaxial cable              | GTS                 | N/A                      | April. 6 2013    | April. 5 2015        |
| Coaxial Cable              | GTS                 | N/A                      | N/A              | N/A                  |
| Thermo meter               | N/A                 | N/A                      | June. 29 2013    | June. 28 2014        |
| Spectrum Analyzer          | Rohde & Schwarz     | FSP30                    | Dec 03 2012      | Dec 03 2014          |

| <b>Conducted Emission</b> |                     |                      |                  |                      |
|---------------------------|---------------------|----------------------|------------------|----------------------|
| <b>Equipment</b>          | <b>Manufacturer</b> | <b>Type</b>          | <b>Cal. Date</b> | <b>Cal. Due date</b> |
| Shielding Room            | ZhongYu Electron    | 7.3(L)x3.1(W)x2.9(H) | Sep. 08 2013     | Sep. 07 2015         |
| EMI Test Receiver         | R&S                 | ESCS30               | June. 29 2013    | June. 28 2014        |
| Pulse Limiter             | R&S                 | ESH3-Z2              | June. 29 2013    | June. 28 2014        |
| Coaxial Switch            | ANRITSU CORP        | MP59B                | June. 29 2013    | June. 28 2014        |
| Artificial Mains Network  | SCHWARZBECK MESS    | NSLK8127             | June. 29 2013    | June. 28 2014        |
| Coaxial Cable             | GTS                 | N/A                  | Jul. 07 2013     | Jul. 06 2014         |
| EMI Test Software         | AUDIX               | E3                   | N/A              | N/A                  |
| Thermo meter              | KTJ                 | TA328                | July. 1 2013     | June. 30 2014        |

| <b>Bandwidth</b>  |                     |             |                  |                     |
|-------------------|---------------------|-------------|------------------|---------------------|
| <b>Equipment</b>  | <b>Manufacturer</b> | <b>Type</b> | <b>Cal. Date</b> | <b>Cal Due Date</b> |
| Spectrum Analyzer | Rohde& Schwarz      | FSP30       | Dec. 02 2012     | Dec. 03 2014        |

## Results FCC Part 15 – Subpart C

| Subclause 15.203 – Antenna Information            |   | Pass                  |                    |                       |                       |         |
|---|---|-----------------------|--------------------|-----------------------|-----------------------|---------|
| <b>Requirement:</b>                               | No antenna other than that furnished by the responsible party shall be used with the device   |                       |                    |                       |                       |         |
| <b>Results:</b>                                   | Permanent attached antenna  |                       |                    |                       |                       |         |
| <b>Verdict:</b>                                   | Pass  |                       |                    |                       |                       |         |
| Subclause 15.207 – Conducted Emission on AC Mains |   | Pass                  |                    |                       |                       |         |
| Test Specification                                | : ANSI C63.4 – 2003   |                       |                    |                       |                       |         |
| Mode of operation                                 | : Tx mode   |                       |                    |                       |                       |         |
| Port of testing                                   | : AC Mains input port of PC   |                       |                    |                       |                       |         |
| Detector  | : Quasi-peak and Average  |                       |                    |                       |                       |         |
| RBW   | : 9 kHz   |                       |                    |                       |                       |         |
| Supply voltage                                    | : 120Vac 60Hz   |                       |                    |                       |                       |         |
| Temperature                                       | : 23°C  |                       |                    |                       |                       |         |
| Humidity  | : 50%   |                       |                    |                       |                       |         |
| Requirement:                                      | 15.207(a)   |                       |                    |                       |                       |         |
| <b>Results:</b>                                   | Pass  |                       |                    |                       |                       |         |
| <b>Live measurement</b>                           |   |                       |                    |                       |                       |         |
| Frequency range (MHz)                             | Frequency (MHz)   | Quasi-peak dB $\mu$ V | Average dB $\mu$ V | Limit QP (dB $\mu$ V) | Limit AV (dB $\mu$ V) | Verdict |
| 0,15 – 0,5  | No peak found   | ---                   | ---                | 66 - 56               | 56 - 46               | Pass    |
| > 0,5 - 5   | 0.683   | 38.36                 | 33.96              | 56                    | 46                    | Pass    |
| > 5 - 30  | No peak found   | ---                   | ---                | 60                    | 50                    | Pass    |
| <b>Neutral measurement</b>                        |   |                       |                    |                       |                       |         |
| Frequency range (MHz)                             | Frequency (MHz)   | Quasi-peak dB $\mu$ V | Average dB $\mu$ V | Limit QP (dB $\mu$ V) | Limit AV (dB $\mu$ V) | Verdict |
| 0,15 – 0,5  | No peak found   | ---                   | ---                | 66 - 56               | 56 - 46               | Pass    |
| > 0,5 - 5   | 0.675   | 37.45                 | 32.39              | 56                    | 46                    | Pass    |
| > 5 - 30  | No peak found   | ---                   | ---                | 60                    | 50                    | Pass    |
| <b>Results:</b>                                   | Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types.                           |                       |                    |                       |                       |         |
|   | The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz does not exceed the limits. |                       |                    |                       |                       |         |
|   | For test Results plots refer to Appendix 1, page 2-3.   |                       |                    |                       |                       |         |

| <b>Subclause 15.215 (c) – 20 dB Bandwidth</b>   |                          | <b>Pass</b>                   |
|---|--------------------------|-------------------------------|
| Requirement: The intentional radiators must be designed to ensure that the 20dB bandwidth of the emission, is contained within the frequency band designated in the rule section under which the equipment is operated.   |                          |                               |
| Test Specification : ANSI C63.4 – 2003<br>Mode of operation : Tx mode<br>Port of testing : Enclosure<br>RBW/VBW : 10 kHz/ 30 kHz<br>Supply voltage : 5VDC (USB) and 4.5VDC (3x1.5V AAA new batteries)<br>Temperature : 23°C<br>Humidity : 50%                                       |                          |                               |
| <b>Results:</b> Pass  |                          |                               |
| <b>Frequency (MHz)</b>  | <b>20 dB left (MHz)</b>  | <b>Limit (MHz)</b>            |
| 908.420   | 908.349                  | > 902.000                     |
|   | <b>20 dB right (MHz)</b> | <b>Limit (MHz)</b>            |
|   | 908.496                  | < 928.000                     |
| <b>Subclause 15.249 (a) – Radiated Emission (Fundamental and Harmonics)</b>   |                          | <b>Pass</b>                   |
| Test Specification : ANSI C63.4 – 2003<br>Mode of operation : Tx mode<br>Port of testing : Enclosure<br>RBW/VBW : 120 kHz for f < 1 GHz<br>1 MHz / 3 MHz for f > 1 GHz<br>Supply voltage : 5VDC (USB) and 4.5VDC (3x1.5V AAA new batteries)<br>Temperature : 23°C<br>Humidity : 50% |                          |                               |
| Requirement: The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following limit.  |                          |                               |
| <b>Results:</b> Pass  |                          |                               |
| Fundamental Frequency   |                          | Vertical Polarization         |
| <b>Freq MHz</b>   | <b>Level dBuV/m</b>      | <b>Limit/ Detector dBuV/m</b> |
| 908.400   | 83.97                    | 94.0 / QP                     |
| Fundamental Frequency   |                          | Horizontal Polarization       |
| <b>Freq MHz</b>   | <b>Level dBuV/m</b>      | <b>Limit/ Detector dBuV/m</b> |
| 908.400   | 77.38                    | 94.0 / QP                     |
| Harmonics   |                          | Vertical Polarization         |
| <b>Freq MHz</b>   | <b>Level dBuV/m</b>      | <b>Limit/ Detector dBuV/m</b> |
| 1816.700  | 44.10                    | 74.0 / P                      |
| 1816.700  | 30.32                    | 54.0 / A                      |
| Harmonics   |                          | Horizontal Polarization       |

| <b>Freq<br/>MHz</b> | <b>Level<br/>dBuV/m</b> | <b>Limit/ Detector<br/>dBuV/m</b> |
|---------------------|-------------------------|-----------------------------------|
| 1816.700            | 44.33                   | 74.0 / P                          |
| 1816.700            | 30.19                   | 54.0 / A                          |

| <b>Subclause 15.205, 15.249 (d) – Spurious Radiated Emissions</b>   |   | <b>Pass</b>                       |  |  |
|---|---|-----------------------------------|--|--|
| Test Specification  | : ANSI C63.4 - 2003   |                                   |  |  |
| Mode of operation   | : Tx mode   |                                   |  |  |
| Port of testing   | : Enclosure   |                                   |  |  |
| Detector  | : Peak  |                                   |  |  |
| RBW/VBW   | : 120 kHz for f < 1 GHz<br>1 MHz / 3 MHz for f > 1 GHz  |                                   |  |  |
| Supply voltage  | : 5VDC (USB) and 4.5VDC (3x1.5V AAA new batteries)  |                                   |  |  |
| Frequency range   | : 9kHz to tenth harmonic  |                                   |  |  |
| Temperature   | : 23°C  |                                   |  |  |
| Humidity  | : 50%   |                                   |  |  |
| Requirement:  | Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation. |                                   |  |  |
| <b>Results:</b>   | Pass  |                                   |  |  |
| Transmit mode comply with the field strength within the restricted bands. There is no spurious found below 30MHz. |   |                                   |  |  |
| Vertical Polarization   |   |                                   |  |  |
| <b>Freq<br/>MHz</b>   | <b>Level<br/>dBuV/m</b>   | <b>Limit/ Detector<br/>dBuV/m</b> |  |  |
| 364.260   | 32.35   | 46.0 / QP                         |  |  |
| 400.432   | 32.47   | 46.0 / QP                         |  |  |
| 459.114   | 32.09   | 46.0 / QP                         |  |  |
| 501.179   | 33.35   | 46.0 / QP                         |  |  |
| 902.000   | 34.51   | 46.0 / QP                         |  |  |
| 928.000   | 35.18   | 46.0 / QP                         |  |  |
| Horizontal Polarization   |   |                                   |  |  |
| <b>Freq<br/>MHz</b>   | <b>Level<br/>dBuV/m</b>   | <b>Limit/ Detector<br/>dBuV/m</b> |  |  |
| 166.651   | 30.17   | 43.5 / QP                         |  |  |
| 266.609   | 33.76   | 46.0 / QP                         |  |  |
| 364.260   | 35.11   | 46.0 / QP                         |  |  |
| 432.546   | 35.12   | 46.0 / QP                         |  |  |
| 902.000   | 34.61   | 46.0 / QP                         |  |  |
| 928.000   | 34.76   | 46.0 / QP                         |  |  |

## Results FCC Part 15 – Subpart B

| Subclause 15.107 – Conducted Emission on AC Mains   |                 |                       |                    |                       |                       | Pass    |
|---|-----------------|-----------------------|--------------------|-----------------------|-----------------------|---------|
| Test Specification : ANSI C63.4 – 2003  |                 |                       |                    |                       |                       |         |
| Mode of operation : Rx mode   |                 |                       |                    |                       |                       |         |
| Port of testing : AC Mains input port   |                 |                       |                    |                       |                       |         |
| Detector : Quasi-peak and Average   |                 |                       |                    |                       |                       |         |
| RBW : 9 kHz   |                 |                       |                    |                       |                       |         |
| Supply voltage : 120Vac 60Hz  |                 |                       |                    |                       |                       |         |
| Temperature : 23°C  |                 |                       |                    |                       |                       |         |
| Humidity : 50%  |                 |                       |                    |                       |                       |         |
| Requirement: 15.107(a)  |                 |                       |                    |                       |                       |         |
| <b>Results:</b> Pass  |                 |                       |                    |                       |                       |         |
| <b>Live measurement</b>   |                 |                       |                    |                       |                       |         |
| Frequency range (MHz)   | Frequency (MHz) | Quasi-peak dB $\mu$ V | Average dB $\mu$ V | Limit QP (dB $\mu$ V) | Limit AV (dB $\mu$ V) | Verdict |
| 0,15 – 0,5  | No peak found   | ---                   | ---                | 66 - 56               | 56 - 46               | Pass    |
| > 0,5 - 5   | 0.675           | 37.71                 | 33.52              | 56                    | 46                    | Pass    |
| > 5 - 30  | No peak found   | ---                   | ---                | 60                    | 50                    | Pass    |
| <b>Neutral measurement</b>  |                 |                       |                    |                       |                       |         |
| Frequency range (MHz)   | Frequency (MHz) | Quasi-peak dB $\mu$ V | Average dB $\mu$ V | Limit QP (dB $\mu$ V) | Limit AV (dB $\mu$ V) | Verdict |
| 0,15 – 0,5  | No peak found   | ---                   | ---                | 66 - 56               | 56 - 46               | Pass    |
| > 0,5 - 5   | 0.683           | 37.45                 | 32.39              | 56                    | 46                    | Pass    |
| > 5 - 30  | No peak found   | ---                   | ---                | 60                    | 50                    | Pass    |
| <b>Results:</b> Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types.   |                 |                       |                    |                       |                       |         |
| The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz does not exceed the limits. For test Results plots refer to Appendix 1, page 2-3. |                 |                       |                    |                       |                       |         |

| <b>Subclause 15.109 – Spurious Radiated Emissions</b> |  | <b>Pass</b>               |
|---|--|---------------------------|
| Test Specification                                    | : ANSI C63.4 - 2003                                    |                           |
| Mode of operation                                     | : Rx mode  |                           |
| Port of testing                                       | : Enclosure  |                           |
| Detector  | : Peak   |                           |
| RBW/VBW   | : 120 kHz for f < 1 GHz<br>1 MHz / 3 MHz for f > 1 GHz |                           |
| Supply voltage  | : 5VDC (USB) and 4.5VDC (3x1.5V AAA new batteries)     |                           |
| Temperature   | : 23°C   |                           |
| Humidity  | : 50%  |                           |
| Requirement:  | 15.109(a)  |                           |
| <b>Results:</b>                                       | Pass   |                           |
| Vertical Polarization                                 |  |                           |
| Freq<br>MHz   | Level<br>dBuV/m  | Limit/ Detector<br>dBuV/m |
| 84.999  | 29.95  | 40.0 / QP                 |
| 166.068   | 30.80  | 43.5 / QP                 |
| 547.098   | 32.94  | 46.0 / QP                 |
| Horizontal Polarization                               |  |                           |
| Freq<br>MHz   | Level<br>dBuV/m  | Limit/ Detector<br>dBuV/m |
| 84.999  | 29.95  | 40.0 / QP                 |
| 196.510   | 32.57  | 43.5 / QP                 |
| 265.676   | 32.09  | 46.0 / QP                 |