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Wireless test report – 350995-5TRFWL

Applicant:

Eurotech SpA

Product name:

ReliaGATE 10-12

DynaGATE 10-12

Model:

REGATE-10-12-GS02

FCC ID:

UKMMRG1012

Specifications:

FCC 47 CFR Part 15 Subpart C, §15.209

Radiated emission limits; general requirements.

Kevin Rose, Wireless/EMC Specialist

RSS-GEN, Issue 5, Apr. 2018, section 8.9

Transmitter Emission Limits

Date of issue: September 14, 2018

Test engineer(s): Yong Huang, Wireless/EMC Specialist

Signature:



Signature:

www.nemko.com

Reviewed by:

Model variant:

DYGATE-10-12-GS02

IC Registration number:

21442-MRG1012



Test location(s)

| Company name | Nemko Canada Inc. | |
|--------------|------------------------------------|------------------------------------|
| Address | 303 River Road | 292 Labrosse Avenue |
| City | Ottawa | Pointe-Claire |
| Province | Ontario | Quebec |
| Postal code | K1V 1H2 | H9R 5L8 |
| Country | Canada | Canada |
| Telephone | +1 613 737 9680 | +1 514 694 2684 |
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| Toll free | +1 800 563 6336 | |
| Website | www.nemko.com | www.nemko.com |
| Site number | FCC: CA2040; IC: 2040A-4 (3 m SAC) | FCC: CA2041; IC: 2040G-5 (3 m SAC) |

Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contain in this report are within Nemko Canada's ISO/IEC 17025 accreditation.

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Section 1. Report summary

1.1 Applicant and manufacturer

| Company name | Eurotech SpA |
|--------------|------------------------------------------------|
| Address | Via Fratelli Solari 3/a 33020 Amaro, UD, Italy |

1.2 Test specifications

| FCC 47 CFR Part 15 Subpart C, §15.209 | Radiated emission limits; general requirements. |
|------------------------------------------|----------------------------------------------------------------|
| RSS-GEN, Issue 5, Apr. 2018, section 8.9 | Transmitter Emission Limits for Licence-Exempt Radio Apparatus |

1.3 Test methods

ANSI C63.10 v2013

American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

1.4 Statement of compliance

In the configuration tested, the EUT was found compliant.

Testing was performed against all relevant requirements of the test standard except as noted in section 1.5 below. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested.

See "Summary of test results" for full details.

1.5 Exclusions

As per quote, the purpose of this report is verification of transmitters colocation. Only inter-modulation products within restricted bands were assessed, other requirements were excluded from the scope of this report.

1.6 Test report revision history

| Revision # | Date of issue | Details of changes made to test report |
|------------|--------------------|----------------------------------------|
| TRF | September 14, 2018 | Original report issued |



Section 2. Summary of test results

2.1 FCC Part 15 Subpart C, general requirements test results

| Part | Test description | Verdict |
|---------|-------------------------------------------------|---------|
| §15.209 | Radiated emission limits; general requirements. | Pass |

2.2 ISED RSS-GEN, Issue 5, test results

| Part | Test description | Verdict |
|------|----------------------------------------------------------------|---------|
| 8.9 | Transmitter Emission Limits for Licence-Exempt Radio Apparatus | Pass |



Section 3. Equipment under test (EUT) details

3.1 Sample information

| Receipt date | August 18, 2018 |
|------------------------|-----------------|
| Nemko sample ID number | Item #2 |

3.2 EUT information

| Product name | ReliaGATE 10-12 DynaGATE 10-12 |
|---------------|-----------------------------------|
| Model | REGATE-10-12-GS02 |
| Model variant | DYGATE-10-12-GS02 |
| Serial number | Y117LQA0010 |

3.3 Technical information

| All used IC test site(s) Reg. number | 2040G-5 | | | | |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------|--|--|--|--|
| RSS number and Issue number | RSS-GEN, Issue 5, Apr. 2018, section 8.9 | | | | |
| Frequency band | WIFI/ BT/BLE:2400–2483.5 MHz band | | | | |
| | WIFI:5150–5250 MHz, 5725–5850 MHz bands | | | | |
| | LTE North America Bands | | | | |
| Type of modulation | GFSK, 802.11a/n, OFDM | | | | |
| Emission classification (F1D, G1D, D1D) | F1D, W7D | | | | |
| EUT power requirements | 24 V_{DC} , via 120 V_{AC} adapter or battery | | | | |
| Antenna information | The EUT uses a unique antenna coupling. | | | | |
| | EUT has 2 antenna configurations. The max antenna peak gain is 5.47 dBi at 2.4 GHz band and 7.07 dBi at 5 | | | | |
| | GHz WIFI bands. | | | | |



3.4 EUT setup diagram





3.5 EUT sub assemblies

Table 3.5-1: EUT sub assemblies

| Description | Brand name | Model/Part number | Serial number |
|--------------|------------|-------------------|---------------|
| REGATE-10-12 | Eurotech | REGATE-10-12-GS02 | Y117LQA0010 |
| AC adapter | Sunny | SYS15412424 | None |



Section 4. Engineering considerations

4.1 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment.

4.2 Technical judgment

Differences between the variants are as below. REGATE-10-12 was chosen as representative worst-case.

| Model | ReliaGATE 10-12 | | | | DynaGATE 10-12 | | | | | |
|-----------------------------------|----------------------------------------------------------------------------|----------------------------------------|---------------------------|------------------------|-------------------------|----------------------------|-------------------------|------------------------|--------------------------|--------------------------|
| Variant (Base Hardware) | REGATE-10-12-GS02 | REGATE-10-12-01 | REGATE-10-12-02 | REGATE-10-12-03 | REGATE-10-12-05 | DYGATE-10-12-GS02 | DYGATE-10-12-01 | DYGATE-10-12-02 | DYGATE-10-12-03 | DYGATE-10-12-05 |
| REGATE-10-12-xx | (EMC Sample Unit) | | | | | (EMC Sample Unit) | | | | |
| OS SW Versions | | REGATE-10-12-21 | REGATE-10-12-22 | REGATE-10-12-23 | REGATE-10-12-25 | - | DYGATE-10-12-21 | DYGATE-10-12-22 | DYGATE-10-12-23 | DYGATE-10-12-25 |
| Refer Note 1. | | REGATE-10-12-31 | REGATE-10-12-32 | REGATE-10-12-33 | REGATE-10-12-35 | | DYGATE-10-12-31 | DYGATE-10-12-32 | DYGATE-10-12-33 | DYGATE-10-12-35 |
| GENERAL | | | | | · | | | | | |
| Processor | | | | | TI Sitara | AM3352 1GHz | | | | |
| DRAM | | | | | 10 | 6B DDR3 | | | | |
| STORAGE | | | | 4GB eMMC, mic | ro SD slot accessible u | nder service panel openin | g, 256kbit EEPROM | | | |
| PCB Design | | | Bot | h models share the sai | me PCB design with po | pulation differences as de | escribed below (8-layer | rs PCB) | | |
| Ethernet | | | | | 2x 10-100Mb | ps on shielded RJ45 | | | | |
| Serial | | | | Two identica | l 2-lines channels(RX/T | X, RA+/RB-) available on | 3.5mm terminal | | | |
| Debug | | | | RS232 | 3.3V TTL debug port av | ailable under service pan | el opening | | | |
| CAN | | | Two io | fentical Can bus ports | available on 3.5mm te | rminal header with exter | nal power delivery 5V | @100mA | | |
| Digital I/O | | | 2x Digital Inp | ut 36V, 1kV Opto-isola | ted, 2x Digital Output | 40VDC), 500mA fuse pro | tected, 1KHz Max Swit | ching(optorelay) | | |
| USB | 3x Host 2.0 (Noise and | Surge Protected) - Typ | e A – Electrically identi | ical to DynaGATE 10-1 | 2 Variants | 3x Host 2.0 (Noise and | Surge Protected) - Hig | h Retention Type A - E | lectrically identical to | ReliaGATE 10-12 Variants |
| Expansion | | | | Yes, for t | Side Expansion Module | s (24way 2mm/2row fem | iale header) | | | |
| WIRELESS | | | | | | | | | | |
| LTE | TELIT LE910-NA1 LTE | None | None | TELIT LE910-NA1 LT | E | TELIT LE910-NA1 LTE | None | None | TELIT LE910-NA1 LT | E |
| WiFi | Jorjin WG7833-B0 | None | Jorjin WG7833-B0 | None | Jorjin WG7833-B0 | Jorjin WG7833-B0 | None | Jorjin WG7833-B0 | None | Jorjin WG7833-B0 |
| GPS | U-Blox NEO M8 GPS | | Optional U-Blox NE | D-M8x GPS Receiver | | | Integrat | ed U-Blox NEO-M8x G | PS Receiver | |
| OTHER | | | | | | | | | | |
| RTC | Yes (Lithium BR1225 ba | attery backup) | | | | Yes (Supercap backup) | | | | |
| Sensors | | | | | Temperatur | e, Accelerometer | | | | |
| Buttons | | | | 1x RESE | T, 1x user programmal | ole available under the se | rvice panel | | | |
| LEDs | | 1x Power, 1x Cellular, 4x Programmable | | | | | | | | |
| TPM | Factory Option | | | | | | | | | |
| SIM slot | 2x microSIM (User Accessible under the service panel) | | | | | | | | | |
| Power | Power 6-36VDC, with Transient Protection, Vehicle Ignition Sense (2W typ.) | | | | | | | | | |
| ENVIRONMENT | | | | | | | | | | |
| Operating temp. range | - 20 to +70°C -40 to +85°C | | | | | | | | | |
| Storage temp. range - 40 to +85°C | | | | | | | | | | |
| MECHANICAL | | | | | | | | | | |
| Enclosure | ABS Plastic Aluminium Sheetmetal | | | | | | | | | |
| Ingress | | | | | | IP40 | | | | |
| | | | | | | | | | | |

Dimensions 138.9x115.0x46.2mm (LXWXH) - with mounting bracket and SMA connectors 138.9x118.2x51.6mm (LXWXH) - with mounting bracket and SMA connectors 138.9x118.2x51.6mm (LXWXH) - with mounting bracket and SMA connectors Note 1: Radio module firmware and operating system based radio firmware loaded during OS boot are identical across all REGATE-10-12-xx and DYGATE-10-12-xx variants.

The EUT has WIFI and Bluetooth in 2.4 GHz band, WIFI is chosen to be the representative worst-case due to higher output power.

4.3 Deviations from laboratory tests procedures

No deviations were made from laboratory procedures.



Section 5. Test conditions

5.1 Atmospheric conditions

| Temperature | 15–30 °C |
|-------------------|---------------|
| Relative humidity | 20–75 % |
| Air pressure | 860–1060 mbar |

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages ±5 %, for which the equipment was designed.



Section 6. Measurement uncertainty

6.1 Uncertainty of measurement

UKAS Lab 34 and TIA-603-B have been used as guidance for measurement uncertainty reasonable estimations with regards to previous experience and validation of data. Nemko Canada, Inc. follows these test methods in order to satisfy ISO/IEC 17025 requirements for estimation of uncertainty of measurement for wireless products.

Measurement uncertainty budgets for the tests are detailed below. Measurement uncertainty calculations assume a coverage factor of K = 2 with 95% certainty.

| Test name | Measurement uncertainty, dB |
|-----------------------------------|-----------------------------|
| All antenna port measurements | 0.55 |
| Conducted spurious emissions | 1.13 |
| Radiated spurious emissions | 3.78 |
| AC power line conducted emissions | 3.55 |



Test equipment list 7.1

| Table 7.1-1: Equipment list | | | | | |
|------------------------------|--------------------|-----------|-----------|-----------|-------------|
| Equipment | Manufacturer | Model no. | Asset no. | Cal cycle | Next cal. |
| 3 m EMI test chamber | ТDК | SAC-3 | FA002532 | 2 year | June 5/19 |
| Flush mount turntable | Sunol | FM2022 | FA002550 | — | NCR |
| Controller | Sunol | SC104V | FA002551 | _ | NCR |
| Antenna mast | Sunol | TLT2 | FA002552 | _ | NCR |
| 3 Phase AC Power Source | apc AC Power | 45 kVA | FA002677 | — | VOU |
| Receiver/spectrum analyzer | Rohde & Schwarz | ESU 40 | FA002071 | 1 year | Sept. 18/18 |
| Bilog antenna (20–2000 MHz) | Sunol | JB1 | FA002517 | 1 year | Dec. 6/18 |
| Horn antenna (1–18 GHz) | EMCO | 3115 | FA001452 | 1 year | Nov. 20/18 |
| Pre-amplifier (0.5–18 GHz) | COM-POWER | PAM-118A | FA002561 | 1 year | Sept. 21/18 |
| Horn antenna (18–40 GHz) | EMCO | 3116 | FA002487 | 2 year | Aug. 16/19 |
| Pre-amplifier (18–40 GHz) | COM-POWER | PAM-840 | FA002508 | 1 year | July 8/19 |
| 50 Ω coax cable | C.C.A. | None | FA002603 | _ | VOU |
| 50 Ω coax cable | C.C.A. | None | FA002605 | _ | VOU |
| 50 Ω coax cable | C.C.A. | None | FA002831 | _ | VOU |
| 5150-5350 MHz Notch Filter | Microwave Circuits | N0452501 | FA002690 | _ | VOU |
| 2300-2583.5 MHz Notch Filter | Microwave Circuits | N0324413 | FA002693 | _ | VOU |

Note: NCR - no calibration required, VOU - verify on use

Report reference ID: 350995-5TRFWL





Section 8. Testing data

8.1 FCC 15.209 and RSS-GEN section 8.9 Radiated emission limits; general requirements

8.1.1 Definitions and limits

FCC:

(f) In accordance with §15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation of a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in §15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in §15.205, the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit. Emissions which must be measured above the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator and which fall within the restricted bands shall comply with the general radiated emission limits in §15.109 that are applicable to the incorporated digital device.

ISED:

Except when the requirements applicable to a given device state otherwise, emissions from licence - exempt transmitters shall comply with the field strength limits shown in Table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

Table 8.1-1: FCC §15.209 and RSS-Gen – Radiated emission limits

| Frequency, | Field stren | gth of emissions | Measurement distance, m |
|-------------|-------------|-----------------------------------|-------------------------|
| MHz | μV/m | dBµV/m | |
| 0.009–0.490 | 2400/F | 67.6 – 20 × log ₁₀ (F) | 300 |
| 0.490-1.705 | 24000/F | 87.6 – 20 × log ₁₀ (F) | 30 |
| 1.705-30.0 | 30 | 29.5 | 30 |
| 30–88 | 100 | 40.0 | 3 |
| 88–216 | 150 | 43.5 | 3 |
| 216–960 | 200 | 46.0 | 3 |
| above 960 | 500 | 54 0 | 3 |

Notes: In the emission table above, the tighter limit applies at the band edges.

For frequencies above 1 GHz the limit on peak RF emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test

Table 8.1-2: ISED restricted frequency bands

| MHz | MHz | MHz | GHz |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110 | 12.57675-12.57725 | 399.9–410 | 7.25–7.75 |
| 0.495-0.505 | 13.36-13.41 | 608–614 | 8.025-8.5 |
| 2.1735-2.1905 | 16.42–16.423 | 960–1427 | 9.0–9.2 |
| 3.020-3.026 | 16.69475-16.69525 | 1435–1626.5 | 9.3–9.5 |
| 4.125-4.128 | 16.80425-16.80475 | 1645.5–1646.5 | 10.6–12.7 |
| 4.17725-4.17775 | 25.5-25.67 | 1660–1710 | 13.25–13.4 |
| 4.20725-4.20775 | 37.5–38.25 | 1718.8–1722.2 | 14.47–14.5 |
| 5.677-5.683 | 73–74.6 | 2200–2300 | 15.35–16.2 |
| 6.215-6.218 | 74.8–75.2 | 2310–2390 | 17.7–21.4 |
| 6.26775-6.26825 | 108–138 | 2483.5-2500 | 22.01-23.12 |
| 6.31175–6.31225 | 149.9–150.05 | 2655–2900 | 23.6–24.0 |
| 8.291-8.294 | 156.52475-156.52525 | 3260-3267 | 31.2-31.8 |
| 8.362-8.366 | 156.7–156.9 | 3332–3339 | 36.43–36.5 |
| 8.37625-8.38675 | 162.0125-167.17 | 3345.8–3358 | |
| 8.41425-8.41475 | 167.72–173.2 | 3500-4400 | Above 28 C |
| 12.29-12.293 | 240–285 | 4500-5150 | ADUVE 38.0 |
| 12.51975-12.52025 | 322–335.4 | 5350-5460 | |

Note: Certain frequency bands listed in Table 8.1-2 and above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.



Table 8.1-3: FCC restricted frequency bands

| MHz | MHz | MHz | GHz |
|-------------------|---------------------|---------------|-------------|
| 0.090–0.110 | 16.42-16.423 | 399.9–410 | 4.5–5.15 |
| 0.495-0.505 | 16.69475-16.69525 | 608–614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960–1240 | 7.25–7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300–1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5–38.25 | 1435–1626.5 | 9.0–9.2 |
| 4.20725-4.20775 | 73–74.6 | 1645.5-1646.5 | 9.3–9.5 |
| 6.215-6.218 | 74.8–75.2 | 1660–1710 | 10.6–12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25–13.4 |
| 6.31175-6.31225 | 123–138 | 2200–2300 | 14.47–14.5 |
| 8.291-8.294 | 149.9–150.05 | 2310-2390 | 15.35–16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7–21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690–2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260–3267 | 23.6–24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332–3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240–285 | 3345.8–3358 | 36.43–36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | Above 38.6 |
| 13.36–13.41 | | | |

8.1.2 Test summary

| Test start date | July 16, 2018 |
|-----------------|---------------|
| Test engineer | Yong Huang |

8.1.3 Observations, settings and special notes

The spectrum was searched from 30 MHz to 40 GHz.

EUT's LTE and WIFI transmitters were set to transmit continuously, different channel setting has been investigated as per provided by client's setup, only the worst-case is presented.

Radiated measurements were performed at a distance of 3 m for frequency rand below 18 GHz, and 1 m for frequency range above 18 GHz. No intermodulation products emissions were detected above 18 GHz within 6 dB below the limit.

Spectrum analyzer settings for frequencies below 30 MHz:

| Detector mode | Quasi-Peak |
|----------------------|------------|
| Resolution bandwidth | 9 kHz |
| Video bandwidth | 30 kHz |
| Trace mode | Max Hold |
| Measurement time | 100 ms |

Spectrum analyser settings for radiated measurements within restricted bands 30 MHz to 1 GHz:

| Resolution bandwidth: | 1 MHz |
|-----------------------|----------|
| Video bandwidth: | 3 MHz |
| Detector mode: | Peak |
| Trace mode: | Max Hold |

Spectrum analyser settings for average radiated measurements within restricted bands above 1 GHz:

| Resolution bandwidth: | 1 MHz |
|-----------------------|----------|
| Video bandwidth: | 10 Hz |
| Detector mode: | Peak |
| Trace mode: | Max Hold |



8.1.4 Test data







Figure 8.1-2: Radiated spurious emissions, LTE Tx at 782 MHz, WIFI Tx at 5200 MHz

Note: Emissions above the limit were from intentional emissions. no intermodulation emissions were detected



8.1.4 Test data, continued







Figure 8.1-4: Radiated spurious emissions, LTE Tx at 1883 MHz, WIFI Tx at 5200 MHz



8.1.4 Test data, continued



AVG_MAXH PK+_MAXH FCC 15.209 and RSS-210 limit line FCC 15.209 and RSS-210 limit line RB pk





Figure 8.1-6: Radiated spurious emissions, LTE Tx at 782 MHz, WIFI Tx at 5200 MHz

Note: Emissions above the limit were from intentional emissions or their harmonic, no intermodulation emissions were detected



8.1.4 Test data, continued



AV PK FC

AVG_MAXH PK+_MAXH FCC 15.209 and RSS-210 limit line FCC 15.209 and RSS-210 limit line RB pk



Figure 8.1-7: Radiated spurious emissions, LTE Tx at 1883 MHz, WIFI Tx at 2412 MHz





Figure 8.1-8: Radiated spurious emissions, LTE Tx at 1883 MHz, WIFI Tx at 5200 MHz

Note: Emissions above the limit were from intentional emissions.



8.1.4 Test data, continued



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Figure 8.1-10: Radiated spurious emissions, LTE Tx at 782 MHz, WIFI Tx at 5200 MHz

Frequency in Hz

8

6

5G

in the state of the state

9

10G

Report reference ID: 350995-5TRFWL

Preview Result 2-AVG Preview Result 1-PK+

FCC 15.209 and RSS-210 limit line RB pk FCC 15.209 and RSS-210 limit line

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18G



8.1.4 Test data, continued



Preview Result 2-AVG
 Preview Result 1-PK+
 FCC 15.209 and RSS-210 limit line RB pk
 FCC 15.209 and RSS-210 limit line

Figure 8.1-11: Radiated spurious emissions, LTE Tx at 1883 MHz, WIFI Tx at 2412 MHz



Preview Result 2-AVG Preview Result 1-PK+ FCC 15.209 and RSS-210 limit line RB pk FCC 15.209 and RSS-210 limit line





Section 9. Block diagrams of test set-ups

9.1 Radiated emissions set-up for frequencies below 1 GHz



9.2 Radiated emissions set-up for frequencies above 1 GHz

