| T | ES | T R | EP | 0 | RT |
|---|----|-----|----|---|----|
| | | | | | |

| DT&C Co., Ltd. |
|--|
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| |
| 1. Report No : DRTFCC2108-0081 |
| 2. Customer |
| Name (FCC) : DASAN Networks, Inc. |
| 3. Use of Report : FCC Certification |
| Product Name / Model Name : Vehicle Control Terminal / TMS3.0 (300611-01929) FCC ID : 2AXDMTMS30CELLTYPEA |
| 5. FCC Regulation(s): Part 22, 90 |
| Test Method Used : KDB971168 D01v03r01, ANSI C63.26-2015, ANSI/TIA-603-E-2016 |
| 6. Date of Test : 2021.06.21 ~ 2021.07.21 |
| 7. Location of Test : 🛛 Permanent Testing Lab |
| 8. Testing Environment : See appended test report. |
| 9. Test Result : Refer to attached test result. |
| The results shown in this test report refer only to the sample(s) tested unless otherwise stated. |
| This test report is not related to KOLAS accreditation. |
| Affirmation Tested by Reviewed by |
| Name : JaeHyeok Bang (Statute) Name : JaeJin Lee (Signature) |
| |
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| |
| 2021.08.04. |
| DT&C Co., Ltd. |

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

Test Report Version

| Test Report No. | Date | Description | Revised by | Reviewed by |
|-----------------|---------------|---------------|---------------|-------------|
| DRTFCC2108-0081 | Aug. 04, 2021 | Initial issue | JaeHyeok Bang | JaeJin Lee |
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1. GENERAL INFORMATION

| FCC Classification | PCS Licensed Transmitter (PCB) | | |
|---|---|--|--|
| FCC ID | 2AXDMTMS30CELLTYPEA | | |
| Product Name | Vehicle Control Terminal | | |
| Model Name | TMS3.0 (300611-01929) | | |
| Add Model Name | - | | |
| FVIN(Firmware Version Identification Number) | 2 | | |
| EUT Serial Number | Undesignated | | |
| Supplying power | DC 12 V,24 V | | |
| Antenna Information | Antenna Type: Chip Antenna Gain: 0.7 dBi | | |

| | | Emission | | ERP | | |
|-------------|---------------|-----------------------------|------------|--------------------|------------------|--|
| Mode | (MHz) | Designator ^{Note1} | Modulation | Max power (dBm) | Max power (W) | |
| LTE Band 26 | 819.0 | - | QPSK | 18.47 | 0.070 | |
| LTE Band 26 | 819.0 | - | 16QAM | 17.24 | 0.053 | |
| LTE Band 26 | 816.5 ~ 821.5 | - | QPSK | 16.45 | 0.044 | |
| LTE Band 26 | 816.5 ~ 821.5 | - | 16QAM | 15.91 | 0.039 | |
| LTE Band 26 | 815.5 ~ 822.5 | - | QPSK | 16.44 | 0.044 | |
| LTE Band 26 | 815.5 ~ 822.5 | - | 16QAM | 15.86 | 0.039 | |
| LTE Band 26 | 814.7 ~ 823.3 | - | QPSK | 16.46 | 0.044 | |
| LTE Band 26 | 814.7 ~ 823.3 | - | 16QAM | 15.88 | 0.039 | |

Note: This device uses the certified module.(FCC ID : XMR201903EG25G) Please refer to the submitted certified module report for emission designator.



2. INTRODUCTION

2.1 EUT DESCRIPTION

This EUT contains the following capabilities: 850/1900 GPRS/EDGE, 850/1700/1900 WCDMA/HSUPA, Multi-band LTE. **Operation test setup for EUT**

- The call simulator was used to control the transmit parameters during test.

And power control setting of simulator is set to "TPC Pattern : All + 3dB" to get the maximum power for EUT.

2.2 TESTING ENVIRONMENT

| Ambient Condition | | | | | |
|---------------------------------------|---------------|--|--|--|--|
| Temperature | +21 ℃ ~ +25 ℃ | | | | |
| Relative Humidity | 42 % ~ 45 % | | | | |

2.3 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.4 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C 63.4-2014. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95 % level of confidence.

| Parameter | Measurement uncertainty |
|--|---|
| Radiated Disturbance (Below 1 GHz) | 4.9 dB (The confidence level is about 95 %, $k = 2$) |
| Radiated Disturbance (1 GHz ~ 18 GHz) | 5.0 dB (The confidence level is about 95 %, $k = 2$) |
| Radiated Disturbance (Above 18 GHz) | 5.3 dB (The confidence level is about 95 %, $k = 2$) |

2.5 TEST FACILITY

| DT&C Co., Ltd. | | | | | | | | |
|--|----------------|-------------------------|--|--|--|--|--|--|
| The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042. The test site comply with the requirements of § 2.948 according to ANSI 63.4-2014. | | | | | | | | |
| - FCC & IC N - ISED #: 574 | /IRA De 40A | esignation No. : KR0034 | | | | | | |
| www.dtnc.net | | | | | | | | |
| Telephone : + 82-31-321-2664 | | | | | | | | |
| FAX | : | + 82-31-321-1664 | | | | | | |

Dt&C

3. DESCRIPTION OF TESTS

3.1 ERP & EIRP (Effective Radiated Power & Equivalent Isotropic Radiated Power)

Test Set-up



These measurements were performed at 3 m test site. The equipment under test is placed on a non-conductive table 0.8 m or 1.5 m above a turntable which is flush with the ground plane and 3 meters from the receive antenna. For measurements above 1GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

Test Procedure

- ANSI/TIA-603-E-2016 Section 2.2.17
- KDB971168 D01v03 Section 5.2.2
- ANSI C63.26-2015 Section 5.2.4.4.1

Test setting

- 1. Set span to 2 x to 3 x the OBW.
- 2. Set RBW = 1 % to 5 % of the OBW.
- 3. Set VBW \ge 3 x RBW.
- 4. Set number of points in sweep $\ge 2 \times \text{span} / \text{RBW}$.
- 5. Sweep time:
 - 1) Set = auto-couple, or
 - 2) Set \geq [10 \times (number of points in sweep) \times (transmission period)] for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.
- 6. Detector = power averaging (rms).
- 7. If the EUT can be configured to transmit continuously, then set the trigger to free run.
- 8. If the EUT cannot be configured to transmit continuously, then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Verify that the sweep time is less than or equal to the transmission burst duration. Time gating can also be used under similar constraints (i.e., configured such that measurement data is collected only during active full-power transmissions).
- 9. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over multiple symbols, it can be necessary to increase the number of traces to be

averaged above 100 or, if using a manually configured sweep time, increase the sweep time.

10. Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function, with the band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

The receiver antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer.

A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminal of the substitute antenna is measured.

The ERP/EIRP is calculated using the following formula:

ERP/EIRP = The conducted power at the substitute antenna's terminal [dBm] + Substitute Antenna gain [dBd for ERP, dBi for EIRP]

For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference Between the gain of the horn antenna and an isotropic antenna are taken into consideration.

3.2 UNDESIRABLE EMISSIONS

Test Set-up



These measurements were performed at 3 test site. The equipment under test is placed on a non-conductive table 0.8 m or 1.5 m above a turntable which is flush with the ground plane and 3 meters from the receive antenna. For measurements above 1GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

Test Procedure

- ANSI/TIA-603-E-2016 Section 2.2.12
- KDB971168 D01v03 Section 5.8
- ANSI C63.26-2015 Section 5.5

Test setting

- 1. RBW = 100 kHz for below 1 GHz and 1 MHz for above 1 GHz / VBW \ge 3 X RBW
- 2. Detector = RMS & Trace mode = Max hold
- 3. Sweep time = Auto couple
- 4. Number of sweep point \geq 2 X span / RBW
- 5. The trace was allowed to stabilize

The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer.

For radiated power measurements below 1 GHz, a half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading.

For radiated power measurements above 1 GHz, a Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. The difference between the gain of the horn and an isotropic antenna are taken into consideration.

4. LIST OF TEST EQUIPMENT

| Туре | Manufacturer | Model | Cal.Date (yy/mm/dd) | Next.Cal. Date (yy/mm/dd) | S/N |
|---------------------------------|----------------------|---------------------------------|------------------------|------------------------------|------------|
| Spectrum Analyzer | Agilent Technologies | N9020A | 21/06/24 | 22/06/24 | US47360812 |
| DC power supply | SM techno | SDP30-5D | 21/06/24 | 22/06/24 | 305DMG305 |
| Multimeter | FLUKE | 17B+ | 20/12/16 | 21/12/16 | 36390701WS |
| Radio Communication Analyzer | Anritsu | MT8820C | 21/06/24 | 22/06/24 | 6201274519 |
| Thermohygrometer | BODYCOM | BJ5478 | 20/12/16 | 21/12/16 | 120612-2 |
| Signal Generator | Rohde Schwarz | SMBV100A | 20/12/16 | 21/12/16 | 255571 |
| Signal Generator | ANRITSU | MG3695C | 20/12/16 | 21/12/16 | 173501 |
| Loop Antenna | ETS-Lindgren | 6502 | 21/01/28 | 23/01/28 | 00226186 |
| Bilog Antenna | Schwarzbeck | VULB 9160 | 20/12/16 | 21/12/16 | 9160-3362 |
| Dipole Antenna | A.H.Systems Inc. | FCC-4 | 20/12/16 | 22/12/16 | 710A |
| Dipole Antenna | Schwarzbeck | UHA9105 | 20/04/10 | 22/04/10 | 2262 |
| HORN ANT | ETS | 3117 | 20/12/16 | 21/12/16 | 00140394 |
| HORN ANT | ETS | 3117 | 21/06/24 | 22/06/24 | 00143278 |
| HORN ANT | A.H.Systems | SAS-574 | 21/06/24 | 22/06/24 | 154 |
| HORN ANT | A.H.Systems | SAS-574 | 21/06/24 | 22/06/24 | 155 |
| Amplifier | EMPOWER | BBS3Q7ELU | 21/06/24 | 22/06/24 | 1020 |
| PreAmplifier | H.P | 8447D | 20/12/16 | 21/12/16 | 2944A07774 |
| PreAmplifier | Agilent | 8449B | 21/06/24 | 22/06/24 | 3008A02108 |
| High-pass filter | Wainwright | WHKX12-935-1000- 15000-40SS | 21/06/24 | 22/06/24 | 7 |
| High-pass filter | Wainwright | WHKX10-2838-3300- 18000-60SS | 21/06/24 | 22/06/24 | 2 |
| Cable | HUBER+SUHNER | SUCOFLEX100 | 21/01/08 | 22/01/08 | M-01 |
| Cable | HUBER+SUHNER | SUCOFLEX100 | 21/01/08 | 22/01/08 | M-02 |
| Cable | JUNFLON | MWX241/B | 21/01/08 | 22/01/08 | M-03 |
| Cable | JUNFLON | MWX221 | 21/01/08 | 22/01/08 | M-04 |
| Cable | JUNFLON | MWX221 | 21/01/08 | 22/01/08 | M-05 |
| Cable | DTNC | Cable | 21/01/08 | 22/01/08 | M-06 |
| Cable | JUNFLON | J12J101757-00 | 21/01/08 | 22/01/08 | M-07 |
| Cable | HUBER+SUHNER | SUCOFLEX104 | 21/01/08 | 22/01/08 | M-08 |
| Cable | HUBER+SUHNER | SUCOFLEX106 | 21/01/08 | 22/01/08 | M-09 |

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017. Note2: The cable is not a regular calibration item, so it has been calibrated by DT & C itself.

5. SUMMARY OF TEST RESULTS

| FCC Part Section(s) | Test Description | Test Limit | Test Condition | Status Note 1 | | |
|---|---|--|-------------------|--------------------|--|--|
| 2.1046 90.635 | Conducted Output Power | < 100 Watts | | NA Note 2 | | |
| 2.1049 | Occupied Bandwidth | N/A | | NA Note 2 | | |
| 2.1051 90.691 | Band Edge / Conducted Spurious Emissions | > 43 + $10\log_{10}(P)$ dB for all out-of-band emissions except > 50 + $10\log_{10}(P)$ dB at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge | | NA Note 2 | | |
| 90.210(n) | Emission Mask | Emission Mask B: (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB. (2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB. (3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB. | Conducted | NA Note 2 | | |
| 2.1055 90.213 | Frequency Stability | < 2.5 ppm | | NA Note 2 | | |
| 22.913(a.5) | Radiated Output Power | < 7 Watts max. ERP | | C ^{Note3} | | |
| 2.1053 90.691 Undesirable Emissions | | > 43 + 10log ₁₀ (P) dB for all out-of-band emissions except > 50 + 10log ₁₀ (P) dB at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge | Radiated | C ^{Note3} | | |
| Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable Note 2: These test items were not performed because this device uses the certified module. (FCC ID : XMR201903EG25G) Please refer to the test report of the granted module Note 3: The radiated test items were tested at DC 12 V and DC 24 V. And the worst case data are reported. | | | | | | |

6. EMISSION DESIGNATOR AND SAMPLE CALCULATION

A. For substitution method

- 1) The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1 GHz respectively above ground.
- 2) The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 3) During the test, the turn table is rotated until the maximum signal is found.
- 4) Record the field strength meter's level. (ex. Spectrum reading level is -8.5 dBm)
- 5) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 6) Increase the signal generator output till the field strength meter's level is equal to the item (4).
- (ex. Signal generator level is -18.04 dBm)
- 7) The gain of the cable and amplifier between the signal generator and terminals of substituted antenna is 46.92 dB at test frequency.
- 8) Record the level at substituted antenna terminal. (ex. 28.88dBm)
- 9) The result is calculated as below;

EIRP(dBm) = LEVLE@ANTENNA TERMINAL + TX Antenna Gain (dBi)

ERP(dBm) = LEVLE@ANTENNA TERMINAL + TX Antenna Gain (dBd)

Where, TX Antenna Gain (dBd) = TX Antenna Gain (dBi) - 2.15 dB



7. TEST DATA

7.1 CONDUCTED OUTPUT POWER

- Not Applicable

7.2 OCCUPIED BANDWIDTH

- Not Applicable

7.3 BAND EDEG EMISSIONS (Conducted)

- Not Applicable

7.4 SPURIOUS AND HARMONICS EMISSIONS (Conducted)

- Not Applicable

7.5 EMISSION MASK (Conducted)

- Not Applicable

7.6 ERP

- Test Notes

This device was tested under all bandwidths, modulations and RB configurations and the worst case data are reported in the table above.

- Measurement data:

<DC 24 V>

| Channel Bandwidth (MHz) | Test Frequency (MHz) | Test Mode | RB Size/ Offset | Ant Pol (H/V) | Level(dBm) @ Ant Terminal | TX Ant Gain (dBd) | ERP (dBm) | ERP (W) |
|----------------------------|-------------------------|--------------|--------------------|------------------|------------------------------|-------------------------|--------------|------------|
| 10 | 910 | QPSK | 1/0 | Н | 19.19 | -0.72 | 18.47 | 0.070 |
| 10 | 019 | 16QAM | 1/0 | Н | 17.96 | -0.72 | 17.24 | 0.053 |
| | 916 5 | QPSK | 1/0 | Н | 17.15 | -0.70 | 16.45 | 0.044 |
| F | 610.5 | 16QAM | 1/0 | Н | 16.61 | -0.70 | 15.91 | 0.039 |
| 5 | 901 E | QPSK | 1/0 | Н | 16.72 | -0.74 | 15.98 | 0.040 |
| | 621.5 | 16QAM | 1/0 | Н | 16.02 | -0.74 | 15.28 | 0.034 |
| | 815.5 819 | QPSK | 1/0 | Н | 17.13 | -0.69 | 16.44 | 0.044 |
| | | 16QAM | 1/0 | Н | 16.55 | -0.69 | 15.86 | 0.039 |
| 2 | | QPSK | 1/0 | Н | 17.13 | -0.72 | 16.41 | 0.044 |
| 3 | | 16QAM | 1/0 | Н | 16.48 | -0.72 | 15.76 | 0.038 |
| | 822.5 | QPSK | 1/0 | Н | 16.78 | -0.75 | 16.03 | 0.040 |
| | | 16QAM | 1/0 | Н | 16.41 | -0.75 | 15.66 | 0.037 |
| | 0447 | QPSK | 1/0 | Н | 17.15 | -0.69 | 16.46 | 0.044 |
| | 014.7 | 16QAM | 1/0 | Н | 16.55 | -0.69 | 15.86 | 0.039 |
| 1 4 | 940 | QPSK | 1/0 | Н | 17.16 | -0.72 | 16.44 | 0.044 |
| 1.4 | 819 | 16QAM | 1/0 | Н | 16.60 | -0.72 | 15.88 | 0.039 |
| | 000.0 | QPSK | 1/0 | Н | 16.78 | -0.75 | 16.03 | 0.040 |
| | 823.3 | 16QAM | 1/0 | Н | 16.48 | -0.75 | 15.73 | 0.037 |

<DC 12 V>

| Channel Bandwidth (MHz) | Test Frequency (MHz) | Test Mode | RB Size/ Offset | Ant Pol (H/V) | Level(dBm) @ Ant Terminal | TX Ant Gain (dBd) | ERP (dBm) | ERP (W) |
|----------------------------|-------------------------|--------------|--------------------|------------------|------------------------------|-------------------------|--------------|------------|
| 10 | 910 | QPSK | 1/0 | Н | 18.96 | -0.72 | 18.24 | 0.067 |
| | 019 | 16QAM | 1/0 | Н | 17.81 | -0.72 | 17.09 | 0.051 |

7.7 UNDESIRABLE EMISSIONS (Radiated)

- Test Notes

- 1. This device was tested under all bandwidths, modulations and RB configurations and the worst case data are reported.
- 2. Limit Calculation = 43 + 10log₁₀ (P[Watts])
- 3. This device was tested under all bandwidths, modulations and RB configurations and the worst case data are reported in the table above.
- 4. The frequency spectrum is examined from 9 kHz to the 10th harmonic of the fundamental frequency of the transmitter. No other spurious and harmonic emissions were reported greater than listed emissions above table.

| <dc 24="" v=""></dc> | | | | | | | | | | |
|----------------------|----------------|-----------------------|--------------|------------|---------------------|---------------------------------|---------------------|--------|-------|-------|
| B.W (MHz) | Test | RB Size/ Offset | Test Mode | Freq.(MHz) | Ant Pol (H/V) | Level(dBm) @ Ant Terminal | TX Ant Gain(dBd) | Result | | Limit |
| | Freq. (MHz) | | | | | | | (dBm) | (dBc) | (dBc) |
| 10 819 | | | QPSK | 1 629.17 | Н | -52.51 | 4.32 | -48.19 | 66.66 | 31.47 |
| | | | | 2 443.76 | Н | -53.57 | 4.15 | -49.42 | 67.89 | |
| | | | | 3 258.30 | Н | -50.77 | 5.85 | -44.92 | 63.39 | |
| | | 1/0 | | 4 072.89 | Н | -51.86 | 7.52 | -44.34 | 62.81 | |
| | 910 | | | 4 887.46 | Н | -52.75 | 8.32 | -44.43 | 62.90 | |
| | 019 | 1/0 | | 1 628.91 | Н | -53.24 | 4.32 | -48.92 | 66.16 | 30.24 |
| | | | 16QAM | 2 444.16 | Н | -53.95 | 4.15 | -49.80 | 67.04 | |
| | | | | 3 258.41 | Н | -51.70 | 5.85 | -45.85 | 63.09 | |
| | | | | 4 073.15 | Н | -52.16 | 7.52 | -44.64 | 61.88 | |
| | | | | 4 887.78 | Н | -53.12 | 8.32 | -44.80 | 62.04 | |

- Measurement data:

<DC 12 V>

| B.W (MHz) | Test Freq. (MHz) | RB Size/ Offset | Test Mode | Freq.(MHz) | Ant Pol (H/V) | Level(dBm) @ Ant Terminal | TX Ant Gain(dBd) | Result | | Limit |
|--------------|------------------------|-----------------------|--------------|------------|---------------------|---------------------------------|---------------------|--------|-------|-------|
| | | | | | | | | (dBm) | (dBc) | (dBc) |
| 10 8 | | 1/0 | QPSK | 1 629.14 | н | -52.78 | 4.32 | -48.46 | 66.70 | 31.24 |
| | | | | 2 443.69 | Н | -54.09 | 4.15 | -49.94 | 68.18 | |
| | | | | 3 258.54 | Н | -50.83 | 5.85 | -44.98 | 63.22 | |
| | | | | 4 072.83 | Н | -51.42 | 7.52 | -43.90 | 62.14 | |
| | 910 | | | 4 887.50 | Н | -52.54 | 8.32 | -44.22 | 62.46 | |
| | 019 | | 16QAM | 1 629.05 | н | -53.07 | 4.32 | -48.75 | 65.84 | 30.09 |
| | | | | 2 443.88 | Н | -54.67 | 4.15 | -50.52 | 67.61 | |
| | | | | 3 258.32 | Н | -51.59 | 5.85 | -45.74 | 62.83 | |
| | | | | 4 072.85 | Н | -51.69 | 7.52 | -44.17 | 61.26 | |
| | | | | 4 887.53 | Н | -53.42 | 8.32 | -45.10 | 62.19 | |