

**Bay Area Compliance Laboratories Corp.**  
**JAPAN MIC**  
**CERTIFICATE OF TYPE APPROVAL**

**Certification Number:** 211-190502

**Certificate Holder:** Tersus GNSS Inc.  
Room 210, Building A, No. 666 Zhangheng Road,  
Zhangjiang Hi-Tech Park, Pudong, Shanghai, China

**Manufacturer:** Tersus GNSS Inc.

**Model Number(s):** TC20

**Type of Equipment:** Article 2, Paragraph 1, Item 19 & Item 11-3, 11-7, 11-19, 54  
Specified Radio Equipment Specified in Article 38-2-2,  
Paragraph 1, Item 1 & Item 2 of the Radio Law

**Category:** Bluetooth: 2402-2480 MHz  
Bluetooth LE: 2402-2480 MHz  
Wi-Fi: 2412-2472 MHz, 2422-2462 MHz  
UMTS: 1920-1980 MHz (B1), 900-915 MHz (B8)  
FDD-LTE: 1920-1980 MHz (B1), 1710-1785 MHz (B3)  
TD-LTE: 2545-2655 MHz (B41)

**Frequency Range:**

**Modulation(s):** Please refer to Annex A

**Channel Spacing:** Please refer to Annex A

**Type of Emissions:** Please refer to Annex A

**Antenna Output Power:** Please refer to Annex A  
BT/Wi-Fi: FPC antenna, -1.36 dBi  
UMTS/LTE: FPC Antenna, -0.2 dBi (B1), 0.8 dBi (B3), -1.72 dBi (B8),  
-1.73 dBi (B41)

**Antenna Type:**

**Standards Applied:** MIC Notices NO. 88 Annex 1, 43, 29, 79 & 86  
B1905032, RSHA190507001-24A, RSHA190507001-24B,  
SHA190507001-24C, RSHA190507001-24D, RSHA190507001-24E,  
RSH190812050-SA

**Remark:**

**Registered Certification Body:** RCB ID: 211  
Bay Area Compliance Laboratories Corp.  
1274 Anvilwood Ave., Sunnyvale, CA 94089, USA  
Tel: 1-(408)-732-9162, Fax: 1-(408)-732-9164  
www.baclcorp.com

This certificate is issued to the applicant for the product(s) listed above which is (are) compliant with the Radio Law (Law No. 131, 1950) and Amendments.

Authorized by: *Daniel Deng*  
Daniel Deng, Certifier



Issue Date: 2019-09-16

JRMIC-B



----- Annex A -----

**Article 2, Para 1,  
Item 19:**

Bluetooth: F1D 2402-2480 MHz (1 MHz, 79 CH), 0.07 mW/MHz  
(Modulation: GFSK,  $\pi/4$ -DQPSK, 8DPSK)  
Bluetooth LE: F1D 2402-2480 MHz (2 MHz, 40 CH), 0.7 mW  
(Modulation: GFSK)

Wi-Fi G1D: 2412-2472 MHz (5 MHz, 13 CH), 1.85 mW/MHz  
G1D, D1D: 2412-2472 MHz (5 MHz, 13 CH), 0.9 mW/MHz  
G1D, D1D: 2422-2462 MHz (5 MHz, 9 CH), 0.45 mW/MHz  
(Modulation: DSSS, OFDM)

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**Article 2, Para 1,  
Item 11-3:**

WCDMA: G1A, G1B, G1C, G1D, G1E, G1F, G1X, G7W  
5M00: 902.6-912.4 MHz (200 kHz, 50 CH), 200 mW  
1922.6-1977.4 MHz (200 kHz, 275 CH), 200 mW  
(Modulation: BPSK, QPSK, OQPSK)

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**Article 2, Para 1,  
Item 11-7:**

HSUPA: G1A, G1B, G1C, G1D, G1E, G1F, G1X, G7W  
5M00: 902.6-912.4 MHz (200 kHz, 50 CH), 200 mW  
1922.6-1977.4 MHz (200 kHz, 275 CH), 200 mW  
(Modulation: BPSK, QPSK, OQPSK, 16QAM)

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LTE-FDD: D1A, D1B, D1C, D1D, D1E, D1F, D1X, D7W  
G1A, G1B, G1C, G1D, G1E, G1F, G1X, G7W

**Article 2, Para 1,  
Item 11-19:**

5M00: 1922.5-1927.1 MHz (100 kHz, 47 CH), 15.85 mW  
1927.2-1977.5 MHz (100 kHz, 504 CH), 150 mW  
1712.5-1782.5 MHz (100 kHz, 701 CH), 150 mW  
10M0: 1925-1934.6 MHz (100 kHz, 97 CH), 15.85 mW  
1934.7-1975.0 MHz (100 kHz, 404 CH), 150 mW  
1715-1780 MHz (100 kHz, 651 CH), 150 mW  
15M0: 1927.5-1942.1 MHz (100 kHz, 147 CH), 15.85 mW  
1942.2-1972.5 MHz (100 kHz, 304 CH), 150 mW  
1932.5 MHz (It is limited when transmitting the continuous Max 5.4 MHz  
width between 1927.19-1937.81 MHz), 150 mW  
1717.5-1777.5 MHz (100 kHz, 601 CH), 150 mW  
20M0: 1930-1949.6 MHz (100 kHz, 197 CH), 15.85 mW  
1949.7-1970.0 MHz (100 kHz, 204 CH), 150 mW  
1930.0 MHz (It is limited when transmitting the continuous Max 4.32 MHz  
width between 1925.32-1934.68 MHz), 150 mW  
1720-1775 MHz (100 kHz, 551 CH), 150 mW  
(Modulation: BPSK, QPSK, 16QAM, 64QAM)

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**Article 2, Para 1,  
Item 54:**

TD-LTE: X1A, X1B, X1C, X1D, X1E, X1F, X1X, X7W  
5M00: 2547.5-2652.5 MHz (100 kHz, 1051 CH), 150 mW  
10M0: 2550-2650 MHz (100 kHz, 1001 CH), 150 mW  
15M0: 2552.5-2647.5 MHz (100 kHz, 951 CH), 150 mW  
20M0: 2555-2645 MHz (100 kHz, 901 CH), 150 mW  
(Modulation: BPSK, QPSK, 16QAM, 64QAM)

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\*\*\*\*\* END OF ANNEX A \*\*\*\*\*