SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

BTL INC.
No.68-1, Ln. 169, Sec. 2, Datong Rd.
Xizhi District, New Taipei City 221, Taiwan (R.O.C.)
Mr. Jackie Chiu Phone: +886-2-2641-8198

ELECTRICAL

Valid To: November 30, 2027 Certificate Number: 7131.01

In recognition of the successful completion of the A2LA evaluation process accreditation is granted to this laboratory at the location listed above, ***as well as the two satellite locations listed below***, to perform the following tests:

Test Technology:	**Test Method(s) [1]:**
EMC	
Emissions	
Radiated and Conducted (9 kHz to 40 GHz)	47 CFR FCC Part 15 Subpart B (using ANSI C63.4:2014 [2]); EN 55011; CISPR 11; AS/NZS CISPR 11; BS EN 55011; AS CISPR 11; ICES 001; SANS 211; EN 55013; CISPR 13; AS/NZS CISPR 13; BS EN 55013; EN 55022; CISPR 22; AS/NZS CISPR 22; BS EN 55022; EN 55032; CISPR 32; AS/NZS CISPR 32; VCCI-CISPR 32; BS EN 55032; CAN/CSA-CISPR 32; CNS 15936; SANS 2332; ICES-003; ICES-001; ICES-GEN; ANSI C63.4:2014 [2]
Harmonics	IEC 61000-3-2; EN 61000-3-2; EN IEC 61000-3-2; BS EN 61000-3-2; BS EN IEC 61000-3-2; AS/NZS 61000-3-2; SANS 61000-3-2
Flicker	IEC 61000-3-3; EN 61000-3-3; AS/NZS 61000-3-3; BS EN 61000-3-3; SANS 61000-3-3
Immunity	
Electrostatic Discharge (ESD)	IEC 61000-4-2; EN 61000-4-2; BS EN 61000-4-2; SANS 61000-4-2
Radiated Immunity	IEC 61000-4-3; EN 61000-4-3; BS EN 61000-4-3; EN IEC 61000-4-3; BS EN IEC 61000-4-3; SANS 61000-4-3
Electrical Fast Transient (EFT)	EN 61000-4-4; IEC 61000-4-4; BS EN 61000-4-4; SANS 61000-4-4
Surge	IEC 61000-4-5; EN 61000-4-5; BS EN 61000-4-5; SANS 61000-4-5

5202 Presidents Court, Suite 220 | Frederick, MD 21703-8515 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

Test Technology:	**Test Method(s) [1]:**
Conducted Immunity	EN 61000-4-6; IEC 61000-4-6; BS EN 61000-4-6; SANS 61000-4-6
Magnetic Fields	IEC 61000-4-8; EN 61000-4-8; BS EN 61000-4-8; SANS 61000-4-8
Voltage Dip (VDI)	IEC 61000-4-11; EN 61000-4-11; BS EN 61000-4-11; EN IEC 61000-4-11; BS EN IEC 61000-4-11; SANS 61000-4-11
Product Family / Generic EMC Standard	
Alarm System	EN 50130-4; BS EN 50130-4
Information Technology Equipment	EN 55024; CISPR 24; BS EN 55024
Multimedia Equipment	EN 55035; IEC/CISPR 35; BS EN 55035; SANS 2335
Electric & Electronic Products	IEC 61000-6-1; EN 61000-6-1; BS EN 61000-6-1; EN IEC 61000-6-1; BS EN IEC 61000-6-1; IEC 61000-6-2; EN 61000-6-2; BS EN 61000-6-2; EN IEC 61000-6-2; BS EN IEC 61000-6-2; IEC 61000-6-3; EN 61000-6-3; BS EN 61000-6-3; EN IEC 61000-6-3; BS EN IEC 61000-6-3; IEC 61000-6-4; EN 61000-6-4; BS EN 61000-6-4; EN IEC 61000-6-4; BS EN IEC 61000-6-4
Low Voltage Power Supply Equipment	IEC 61204-3; EN IEC 61204-3; BS EN IEC 61204-3
Radio Communications *(Including DFS where applicable) (9 kHz to 40 GHz)*	
Canada	RSS-GEN; RSS-130; RSS-132; RSS-133; RSS-139; RSS-192; RSS-195; RSS-197; RSS-198; RSS-199; RSS-210 (<40 GHz); RSS-247 (with DFS); RSS-248; RSS-310; ANSI/TIA 603-E 2016; TIA-102.CAAA-E-2016
European Union (EU)	ETSI EN 300 220-1; ETSI EN 300 220-2; ETSI EN 300 328; ETSI EN 300 330; ETSI EN 300 440; ETSI EN 301 489-1; ETSI EN 301 489-3; ETSI EN 301 489-17; ETSI EN 301 489-19; ETSI EN 301 489-24; ETSI EN 301 489-25; ETSI EN 301 489-33; ETSI EN 301 489-52; ETSI EN 301 511; ETSI EN 301 893; ETSI EN 301 908-1
Australia	AS/NZS 4268

Test Technology:	**Test Method(s) [1]:**
Unlicensed Radio - FCC	47 CFR FCC Part 15 Subpart C (using ANSI C63.10:2020); 47 CFR FCC Part 15 Subpart E (using ANSI C63.10:2020 and FCC KDB 905462 D02 (v02)); FCC KDB 905462 (v02); ANSI C63.10:2020
Licensed Radio – FCC	47 CFR FCC Parts 22 (cellular), 24, 25 (below 3 GHz), and 27 (using ANSI C63.26-2015, ANSI/TIA-603-E-2016, and ANSI/TIA-102.CAAA-E-2016); 47 CFR Parts 22 (non-cellular), 90 (below 3GHz), 95 (below 3 GHz), 97 (below 3 GHz) and 101 (below 3 GHz), (using ANSI C63.26:2015, ANSI/TIA-603-E-2016, and ANSI/TIA-102.CAAA-E-2016); ANSI C63.26:2015; ANSI/TIA-603-E-2016; ANSI/TIA-102.CAAA-E-2016
RF Exposure (SAR and MPE calculations)	IEEE Std 1528; IEEE Std C95.3; IEC 62311; EN 62311; BS EN 62311; EN IEC 62311; BS EN IEC 62311; EN 50360; BS EN 50360; EN 50364; BS EN 50364; EN 50383; BS EN 50383; EN 50385; BS EN 50385; EN 50566; BS EN 50566; EN 50663; BS EN 50663; EN 50665; BS EN 50665; EN 62232; BS EN 62232; IEC 62209-1; EN 62209-1; BS EN 62209-1; IEC 62209-2; EN 62209-2; BS EN 62209-2; IEC 62479; EN 62479; BS EN 62479; IEEE Std C95.1; IEEE Std C95.3; EN 50385; BS EN 50385; AS/NZS 2772.2; IEC/IEEE 62209-1528; ACA Standard (Radiocommunications (Electromagnetic Radiation - Human Exposure); RSS-102; RSS-102.SAR.MEAS; FCC KDB 865664 (D01); FCC KDB 447498 (D01)

INFORMATION TECHNOLOGY

Test Technology:	**Test Method(s) [1]:**
Cybersecurity	
Common security requirements for radio equipment - Part 1: Internet connected radio	EN 18031-1; BS EN 18031-1
Common security requirements for radio equipment - Part 2: radio equipment processing data, namely Internet connected radio equipment, childcare radio equipment, toys radio equipment and wearable radio equipment	EN 18031-2; BS EN 18031-2
Common security requirements for radio equipment - Part 3: Internet connected radio equipment processing virtual money or monetary value	EN 18031-3; BS EN 18031-3

No. 85, Ln. 298, Wengong 1st Rd.
Guishan District, Taoyuan City 333001, Taiwan (R.O.C.)
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Test Technology:	**Test Method(s) [1]:**
EMC	
Emissions	
Radiated and Conducted (9 kHz to 40 GHz)	47 CFR FCC Part 15 Subpart B (using ANSI C63.4:2014 [2]); EN 55011; CISPR 11; AS/NZS CISPR 11; BS EN 55011; AS CISPR 11; ICES 001; SANS 211; EN 55013; CISPR 13; AS/NZS CISPR 13; BS EN 55013; EN 55022; CISPR 22; AS/NZS CISPR 22; BS EN 55022; EN 55032; CISPR 32; AS/NZS CISPR 32; VCCI-CISPR 32; BS EN 55032; CAN/CSA-CISPR 32; CNS 15936; SANS 2332; ICES-003; ICES-001; ICES-GEN; ANSI C63.4:2014 [2]
Harmonics	IEC 61000-3-2; EN 61000-3-2; EN IEC 61000-3-2; BS EN 61000-3-2; BS EN IEC 61000-3-2; AS/NZS 61000-3-2; SANS 61000-3-2; IEC 61000-3-12; EN 61000-3-12; BS EN 61000-3-12
Flicker	IEC 61000-3-3; EN 61000-3-3; AS/NZS 61000-3-3; BS EN 61000-3-3; SANS 61000-3-3; IEC 61000-3-11; EN 61000-3-11; BS EN 61000-3-11; EN IEC 61000-3-11; BS EN IEC 61000-3-11

Test Technology:	**Test Method(s) [1]:**
Immunity	
Electrostatic Discharge (ESD)	IEC 61000-4-2; EN 61000-4-2; BS EN 61000-4-2; SANS 61000-4-2
Radiated Immunity	IEC 61000-4-3; EN 61000-4-3; BS EN 61000-4-3; EN IEC 61000-4-3; BS EN IEC 61000-4-3; SANS 61000-4-3
Electrical Fast Transient (EFT)	EN 61000-4-4; IEC 61000-4-4; BS EN 61000-4-4; SANS 61000-4-4
Surge	IEC 61000-4-5; EN 61000-4-5; BS EN 61000-4-5; SANS 61000-4-5
Conducted Immunity	EN 61000-4-6; IEC 61000-4-6; BS EN 61000-4-6; SANS 61000-4-6
Magnetic Fields	IEC 61000-4-8; EN 61000-4-8; BS EN 61000-4-8; SANS 61000-4-8
Voltage Dip (VDI)	IEC 61000-4-11; EN 61000-4-11; BS EN 61000-4-11; EN IEC 61000-4-11; BS EN IEC 61000-4-11; SANS 61000-4-11; IEC 61000-4-34; EN 61000-4-34; BS EN 61000-4-34
Product Family / Generic EMC standard	EN 55024; CISPR 24; BS EN 55024; EN 55035; IEC/CISPR 35; BS EN 55035; SANS 2335; IEC 61000-6-1; EN 61000-6-1; BS EN 61000-6-1; EN IEC 61000-6-1; BS EN IEC 61000-6-1; IEC 61000-6-2; EN 61000-6-2; BS EN 61000-6-2; EN IEC 61000-6-2; BS EN IEC 61000-6-2; IEC 61000-6-3; EN 61000-6-3; BS EN 61000-6-3; EN IEC 61000-6-3; BS EN IEC 61000-6-3; IEC 61000-6-4; EN 61000-6-4; BS EN 61000-6-4; EN IEC 61000-6-4; BS EN IEC 61000-6-4

Test Technology:	**Test Method(s) [1]:**
EMC	
Emissions	
Radiated and Conducted (9 kHz to 40 GHz)	47 CFR FCC Part 15 Subpart B (using ANSI C63.4:2014 [2]); EN 55011; CISPR 11; AS/NZS CISPR 11; BS EN 55011; AS CISPR 11; ICES 001; SANS 211; EN 55013; CISPR 13; AS/NZS CISPR 13; BS EN 55013; EN 55022; CISPR 22; AS/NZS CISPR 22; BS EN 55022; EN 55032; CISPR 32; AS/NZS CISPR 32; VCCI-CISPR 32; BS EN 55032; CAN/CSA-CISPR 32; CNS 15936; SANS 2332; ICES-003; ICES-001; ICES-GEN; ANSI C63.4:2014 [2]
Harmonics	IEC 61000-3-2; EN 61000-3-2; EN IEC 61000-3-2; BS EN 61000-3-2; BS EN IEC 61000-3-2; AS/NZS 61000-3-2; SANS 61000-3-2; IEC 61000-3-12; EN 61000-3-12; BS EN 61000-3-12
Flicker	IEC 61000-3-3; EN 61000-3-3; AS/NZS 61000-3-3; BS EN 61000-3-3; SANS 61000-3-3; IEC 61000-3-11; EN 61000-3-11; BS EN 61000-3-11; EN IEC 61000-3-11; BS EN IEC 61000-3-11
Immunity	
Electrostatic Discharge (ESD)	IEC 61000-4-2; EN 61000-4-2; BS EN 61000-4-2; SANS 61000-4-2
Radiated Immunity	IEC 61000-4-3; EN 61000-4-3; BS EN 61000-4-3; EN IEC 61000-4-3; BS EN IEC 61000-4-3; SANS 61000-4-3
Electrical Fast Transient (EFT)	EN 61000-4-4; IEC 61000-4-4; BS EN 61000-4-4; SANS 61000-4-4
Surge	IEC 61000-4-5; EN 61000-4-5; BS EN 61000-4-5; SANS 61000-4-5
Conducted Immunity	EN 61000-4-6; IEC 61000-4-6; BS EN 61000-4-6; SANS 61000-4-6
Magnetic Fields	IEC 61000-4-8; EN 61000-4-8; BS EN 61000-4-8; SANS 61000-4-8
Mains Frequency Voltage	IEC 61000-4-16; EN 61000-4-16; BS EN 61000-4-16
Ripple on D.C. Power Supply	IEC 61000-4-17; EN 61000-4-17; BS EN 61000-4-17
Damped Oscillatory Wave	IEC 61000-4-18; EN IEC 61000-4-18; BS EN IEC 61000-4-18
DC Voltage Dips, Interruptions, and Variations	IEC 61000-4-29; EN 61000-4-29; BS EN 61000-4-29

Test Technology:	**Test Method(s) [1]:**
Voltage Dip (VDI)	IEC 61000-4-11; EN 61000-4-11; BS EN 61000-4-11; EN IEC 61000-4-11; BS EN IEC 61000-4-11; SANS 61000-4-11; IEC 61000-4-34; EN 61000-4-34; BS EN 61000-4-34
Product Family / Generic EMC standard	EN 55024; CISPR 24; BS EN 55024 EN 55035; IEC/CISPR 35; BS EN 55035; SANS 2335; IEC 61000-6-1; EN 61000-6-1; BS EN 61000-6-1; EN IEC 61000-6-1; BS EN IEC 61000-6-1; IEC 61000-6-2; EN 61000-6-2; BS EN 61000-6-2; EN IEC 61000-6-2; BS EN IEC 61000-6-2; IEC 61000-6-3; EN 61000-6-3; BS EN 61000-6-3; EN IEC 61000-6-3; BS EN IEC 61000-6-3; IEC 61000-6-4; EN 61000-6-4; BS EN 61000-6-4; EN IEC 61000-6-4; BS EN IEC 61000-6-4 IEC 61000-6-5; EN 61000-6-5; BS EN 61000-6-5
Telecom Equipment Products	IEEE Std. 1613; IEEE Std. 1613.1
Communication Networks and Systems in Substations	IEC 61850-3; EN 61850-3; BS EN 61850-3
Railway Applications	IEC 60571; EN 50155; BS EN 50155; IEC 62236-1; EN 50121-1; BS EN 50121-1; IEC 62236-3-2; EN 50121-3-2; BS EN 50121-3-2; IEC 62236-4; EN 50121-4; BS EN 50121-4; IEC 62236-5; EN 50121-5; BS EN 50121-5
Maritime Navigation and Radiocommunication Equipment	IEC 60945; EN 60945; BS EN 60945

On the following products or product types: Information Technology Equipment (ITE); Industrial and Light Industrial Equipment; Home Appliance; Telecommunication Network Equipment; Multimedia Equipment; Radio Equipment and Services; Radio Communication Equipment; Wireless Devices.

[1] When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard test method, per Annex A, Part C of A2LA *R101 - General Requirements- Accreditation of Conformity Assessment Bodies.*

[2] ANSI C63.4a:2017 is used to perform NSA in support of ANSI C63.4:2014 and should not be considered its own test method.

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1		
Rule Subpart/Technology	**Test Method**	**Maximum Frequency (MHz)**
Unintentional Radiators		
Part 15B	ANSI C63.4:2014	40000
Intentional Radiators		
Part 15C	ANSI C63.10:2020	40000
U-NII without DFS Intentional Radiators		
Part 15E	ANSI C63.10:2020	40000
U-NII with DFS Intentional Radiators		
Part 15E	FCC KDB 905462 D02 (v02)	40000
Commercial Mobile Services (FCC Licensed Radio Service Equipment)		
Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; ANSI/TIA-102.CAAA-E; ANSI C63.26:2015	40000
General Mobile Radio Services (FCC Licensed Radio Service Equipment)		
Parts 22 (non-cellular), 90 (below 3 GHz), 95 (below 3 GHz), 97 (below 3 GHz), and 101 (below 3 GHz)	ANSI/TIA-603-E; ANSI/TIA-102.CAAA-E; ANSI C63.26:2015	40000
RF Exposure		
Devices Subject to SAR Requirements	IEEE Std 1528:2013	7125
NOTE: Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (https://apps.fcc.gov/oetcf/eas/) for a listing of FCC approved laboratories.		

Accredited Laboratory

A2LA has accredited

BTL INC.

New Taipei City, Taiwan (R.O.C)

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 27th day of October 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7131.01
Valid to November 30, 2027

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.