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立讯检测股份

LCS Testing Lab

5G NR 测试认证服务

5G NR简介 Introduction to 5G NR

5G NR, 全称第五代通信技术, 基于OFDM的全新空口设计的全球性5G标准, 也是下一代非常重要的蜂窝移动技术基础。5G技术将实现超低时延、高可靠性, 真正实现以人为中心的通讯。5G的使命是改变社会, 除了让人们越来越方便接入互联网, 还要全方位地改变社会上各个行业的生产和运营。

为此, 需要通过5G的通信能力把设备间的距离无限拉近, 并结合各项技术, 为各个行业提供数字化服务, 开启万物互联的时代。

5G NR, the full name of the fifth-generation communication technology, is a global 5G standard based on a new air interface design based on OFDM, and is also a very important cellular mobile technology foundation for the next generation. 5G technology will achieve ultra-low latency, high reliability, and truly realize human-centered communication. The mission of 5G is to change society. In addition to making it easier for people to access the Internet, it also comprehensively changes the production and operation of various industries in society.

To this end, it is necessary to use the 5G communication capabilities to bring the distance between devices infinitely closer, and combine various technologies to provide digital services for various industries and open the era of the Internet of Everything.

产品范围 Product Range

5G eMBB终端产品 5G eMBB End products	5G手机、5G模组、5G热点(MIFI)、5G CPE、5G适配器/dongles、USB可插拔5G终端、AR/VR/MR产品(眼镜、耳机、头盔)、自动驾驶设备(各类汽车)、移动媒体设备(4K/8K高清360°摄像机)、远程教育设备(电视机、平板)、远程办公设备(平板电脑、计算机)、远程医疗设备(医疗机器人、健康监护设备等)、工业互联网设备(工业机器人、3D打印机、无线监控摄像机)、游戏即服务设备(游戏笔记本、游戏智能机、路由器等) 5G mobile phones, 5G modules, 5G hotspots (MIFI), 5G CPE, 5G adapters/dongles, USB pluggable 5G terminals, AR/VR/MR products (glasses, headsets, helmets), autonomous driving equipment (various types of cars), mobile media equipment (4K/8K high-definition 360° camera), distance education equipment (TV, tablet), remote office equipment (tablet, computer), telemedicine equipment (medical robot, health monitoring equipment, etc.), industrial Internet Devices (industrial robots, 3D printers, wireless surveillance cameras), gaming-as-a-service devices (gaming laptops, gaming smartphones, routers, etc.)
5G mMTC终端产品 5G mMTC End products	物联网等模组、表具、传感设备 IoT and other modules, meters, sensing equipment
5G uRLLC终端产品 5G uRLLC End products	车联网、工业互联网等产品 Internet of Vehicles, Industrial Internet and other products

5G射频测试 5G RF Test

射频传导一致性测试, 精确测量幅度电平、频率、时间、吞吐量等参数;

主要仪器设备: 频谱仪、信号源、噪声信号发生器、多径模拟器等。

RF conduction conformance test, accurate measurement of amplitude level, frequency, time, throughput and other parameters;
Main equipment: spectrum analyzer, signal source, noise signal generator, multipath simulator, etc.

常见认证和对应标准测试要求: Common certification and corresponding standard test requirements:

中国 China	5G移动用户终端CCC认证标准: YD/T2583.18-2019 SRRC国内型号核准测试标准: 3GPP TS 38.521-1/3GPP TS 38.521-3 5G mobile user terminal CCC certification standard: YD/T2583.18-2019 SRRC domestic model approval test standard: 3GPP TS 38.521-1/3GPP TS 38.521-3
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RED认证测试 参考标准 RED certification test reference standard	EN 301 908-1 EN 301 908-25 (For UE Range 2 Stand Alone/UE NSA/SA-Sub6) TS 138 521-1 for UE SA TS 138 521-2 for UE SA TS 138 521-3 for UE NSA
FCC认证测试 参考标准 FCC certification test reference standard	47 CFR Part 22: n5/n6(824-849MHz)/B5/B26 47 CFR Part 24: n2/n25/B2/B25/B35 47 CFR Part 27: n7/n12/n38/n40/n41/n42/n66/n71/n77(3700-3980MHz)/n78/B4/B7/B10/B12/B13/B17/B30/B38/B40/B41/B42/B66/B71 47 CFR Part 90: n26(814-824MHz)/n43(3650-3700MHz)/B14/B26 47 CFR Part 96: for CPE, CBR5/CBSD B48 47 CFR Part 30: n258(24.25-25.25GHz)/ n261(27.5-28.35GHz)/ n260(37-40GHz)
ISED认证测试 参考标准 ISED certification test reference standard	RSS-130: n12/n28/n71/B12/B13/B17/B28/B68/B71 RSS-132: n5/n6(824-849MHz)/B5/B26 RSS-133: n2/n25/B2/B25/B35/B36 RSS-139: n66/B4/B10/B66 RSS-140: n66/n80/n86/B14 RSS-195: n40/B30/B40 RSS-197: B42/B48 RSS-199: n7/n38/n41/B7/B38/B41
MIC认证测试 参考标准 MIC certification test reference standard	Article 2 Paragraph 1 of Item 11-19 Article 2 Paragraph 1 of Item 11-21 Article 2 Paragraph 1 of Item 11-29 Article 2 Paragraph 1 of Item 11-30 Article 2 Paragraph 1 of Item 11-32 Article 2 Paragraph 1 of Item 11-54



立讯检测的优势 Advantages of LCS Testing

- 具备2G/3G/4G/5G射频实验室、短距离无线实验室、SAR测试系统、蓝牙BQB实验室。
- 拥有一批在蓝牙、射频、EMC、SAR等产品测试研究及开发十余年经验的工程师团队。
- 被评定为国家高新技术企业、企业信誉AAA企业。
- 建立EMC全电波暗室、EMS/EMI实验室。
- 获得中国合格评定国家认可委员会CNAS、计量认可CMA双重认可实验室。
- 获得美国FCC、TIMCO、MICOM、SIEMIC、CETECOM、NVLAP, 加拿大IC, 德国TUV、EMCC、PHOENIX等国际机构认可与授权。
- 获得英国INTERTEK, 中国CCC、SRRC, 挪威NEMKO, 日本MIC/TELEC和蓝牙SIG联盟等国际机构认可与授权。
- 拥有18年行业经验, 国际认可度高。

- Equipped with 2G/3G/4G/5G RF laboratory, short-range wireless laboratory, SAR test system, and Bluetooth BQB laboratory.
- Has a team of engineers with more than ten years of experience in product testing, research and development of Bluetooth, RF, EMC, SAR and other products.
- It was rated as a national high-tech enterprise and an AAA enterprise with corporate reputation.
- Established EMC full anechoic chamber and EMS/EMI laboratory.
- Obtained the dual accreditation laboratory of China National Accreditation Service for Conformity Assessment CNAS and Metrology Accreditation CMA.
- It has been recognized and authorized by international organizations such as FCC, TIMCO, MICOM, SIEMIC, CETECOM, NVLAP in the United States, IC in Canada, TUV, EMCC, and PHOENIX in Germany.
- It has been recognized and authorized by international institutions such as INTERTEK in the UK, CCC, SRRC in China, NEMKO in Norway, MIC/TELEC in Japan and the Bluetooth SIG Alliance.
- With 18 years of industry experience, it is highly recognized internationally.