

ELECTRICAL & ELECTRONICS BLUETOOTH

BLUETOOTH WIRELESS TECHNOLOGY

Bluetooth, the benchmark in short range wireless connection, offers users the convenience of cable free connections and simplifies the discovery and setup of services between devices.

Applications for Bluetooth technology include: Telecommunication, Computing, Networking, Consumer Electronics, Automotive Parts, Medical Devices, Home Automation and Industry Control.

The Bluetooth communication protocol, trademark and compliance process is owned and operated by the Bluetooth Special Interest Group (SIG).

Before they can be approved or marketed all Bluetooth devices must be tested and shown compliant by a SIG accredited Bluetooth Qualification Expert (BQE) at a Bluetooth Qualification Testing Facility (BQTF). Compliant products can display the Bluetooth trademark.

Successful completion of the Bluetooth Qualification Process must be accompanied by compliance with the regulatory requirements for the frequency spectrum in different countries. In general there are three product certification requirements that apply to Bluetooth products – radio type approval, EMC certification and safety certification. Our wireless telecommunication experts can advise you on the specific requirements of your market.



BLUETOOTH® TECHNOLOGY TESTING AND CERTIFICATION SERVICES



In China, SGS has a SIG accredited Bluetooth qualification service team and BQTF. In addition, SGS has the country's first and only BQE recognised as both a Bluetooth Training Instructor and Bluetooth QEP Auditor and recognised as a Top 10 Provider of Bluetooth Qualification Services worldwide in 2008, 2009 and 2010.

SGS conducts Bluetooth testing on the broadest range of products and technologies, to ensure that your products comply with all relevant standards. The company has a strong and experienced testing team in China providing testing for regulatory approval in different countries, such as FCC certification and European Notified Body certification. RF testing, EMC testing, electrical safety testing and product design consultancy are also available.

SGS BLUETOOTH QUALIFICATION & REGULATORY SERVICE

SGS provides a single source for Bluetooth services, from Bluetooth Qualification Approval and regulatory testing to technical training and consultancy.

The SGS logo, consisting of the letters "SGS" in a bold, sans-serif font, with a vertical line to the right of the letters and a horizontal line below the letters.

BLUETOOTH QUALIFICATION TESTING FACILITY (BQTF)

- Bluetooth RF Conformance Testing
- Protocol and Profile Conformance Testing
- Profile Interoperability Testing

REGULATORY TESTING AND CERTIFICATION SERVICES

- EMC
- Safety
- RF

TRAINING AND CONSULTANCY

- Debug consultancy
- Bluetooth training
- Bluetooth QEP audit

BQE QUALIFICATION SERVICE

- Review the compliance folder
- Approve qualification project
- List product on the Qualified Design/Product List

Our BQE services improve the Bluetooth Qualification process and smooth a product's route to market. A product listed by a BQE is exempted from the Random Audit Pool thereby reducing risk when it goes to market.

RF TESTING

- Equivalent isotropically radiated power (EIRP)
- Output power
- Occupied bandwidth
- Duty cycle
- Transmitter unwanted emissions in the out-of-band domain
- Transmitter unwanted emissions in the spurious domain
- Receiver spurious emissions

EMC TESTING

- Radiated emission
- Conducted emission
- Harmonic emission
- Flicker and voltage fluctuation
- Electrostatic discharge
- Radiated immunity
- Fast transient and burst
- Surge immunity
- Conducted immunity
- Magnetic field immunity
- Voltage dip and interruption



BLUETOOTH REGULATORY APPROVAL PROCEDURE

USA

- Standard: FCC Part 15C
- Procedure: Certification

EU

- Standards: EN 300 328, EN 301 489-17, EN 60950, En 62479
- Procedure: Declaration of conformity with CE mark

CANADA

- Standard: RSS-210
- Procedure: Certification

AUSTRALIA

- Standard: AS/NZS 4268
- Procedure: Declaration of conformity with RCM mark

HONG KONG

- Standard: HKTA 1035
- Procedure: Voluntary certification



CONTACT US

For further information, please contact your local SGS representative or email the global team at

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SGS IS THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.