GREENTEST ®
TECHNOLOGIES

*conformance*Harmony
Bluetooth® LE
Protocol Qualification Tester

Key Features and Benefits

- *conformance*Harmony is recognized by the Bluetooth SIG as a validated test platform

- Provides all low energy HCI / Link Layer tests needed to qualify a low energy device

- Compliant with the latest Bluetooth LE core specification

- Summarizes and pinpoints exact cause of a FAIL or INCONCLUSIVE verdict

- Easily add test results to SIG-generated Test plan (Launch Studio)

- Test Manager, Upper Tester and Lower Tester in one product

- Configurable option to Power Cycle your IUT via HCI or USB allows maximum control with minimal physical interaction

- Automated error recovery of IUT from failures during testing prevents cascade of failures and "false-negatives"

- Works with the included Frontline X240 Wireless Wideband Analyzer to understand and debug each failure

Teledyne LeCroy puts robust conformance testing in the palm of your hand with the *conformance*Harmony LE Tester, an integrated software/ hardware test platform for Bluetooth protocol qualification testing that provides Test Manager, Upper Tester and Lower Tester in one product. The *conformance*Harmony LE Tester performs complete Bluetooth LE controller qualification testing for LE Link Layer and HCI test specifications, providing coverage for Bluetooth LE 4.0, 4.1, 4.2, 5, 5.1, 5.2, 5.3, and upcoming features.

The *conformance*Harmony LE Tester is comprised of three components. The Test Manager is responsible for test execution and logging, running SIG-compliant test scripts, and automated test execution, which allows the system to be integrated into automated regression test systems where no operator intervention is required in order to execute a test suite and parse the pass/fail results. Automated error recovery of the IUT from failures during testing prevents a cascade of failures due to a previous test, limiting failures to just the test that caused the IUT to fail.

The Upper Tester interfaces to the IUT (Implementation Under Test) via HCI UART, and is responsible for HCI testing.

The Lower Tester does RF over-the-air and RF conducted testing.

Once tests have been run, the *conformance*Harmony LE Tester further simplifies the conformance process by automating the creation of test evidence for submission to the Bluetooth SIG, including:

- Validated compliance reporting to submit for SIG certification
- Easy addition of test results to SIG-generated test plan (Launch Studio)
- HCI and over-the-air capture files
- complete log of test case validations and verdicts

The *conformance*Harmony LE Tester includes the powerful Frontline X240 Wireless Wideband Analyzer

Knowing that your IUT failed a test is important for conformance, but the *conformance*Harmony LE Tester provides more than just a pass, fail or inconclusive result for conformance certification - it is a sophisticated protocol analysis and tester platform, providing test case logging and debugging. The *conformance*Harmony LE Tester summarizes and helps to pinpoint the cause of a fail or inconclusive verdict with detailed information to help understand and debug each failure.

Specifications

- **Bluetooth LE controller qualification testing for LE Link Layer and HCI test specifications**
  Bluetooth LE 4.0, 4.1, 4.2, 5, 5.1, 5.2, 5.3
  Upcoming Bluetooth features

- **Timestamp Resolution**
  125 nsec

- **Lower Tester interfaces to IUT**
  RF over-the-air
  RF conducted

- **Upper Tester interfaces to IUT**
  HCI UART

- **Power**
  AC Adapter supplied
  Output of the adapter is 5Vdc, 1.2A

- **Dimensions**
  4.1 x 4.1 x 1.0 inches
  (104 x 104 x 25 mm)

- **Temperature**
  0 to 40 degrees C
  32 to 104 degrees F

- **Humidity**
  Operating: 10% to 90% RH
  (noncondensing)

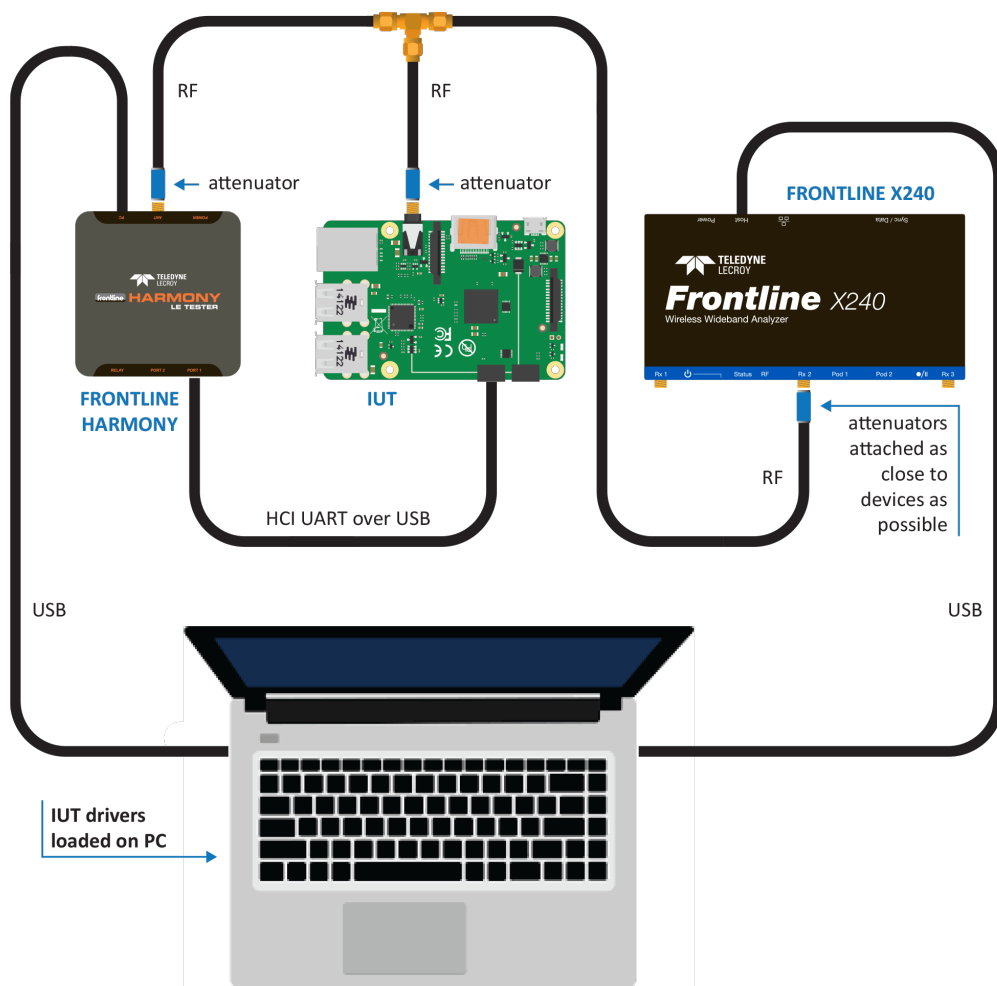- **Receiver Sensitivity**
  -96 dBm

- **Supported Configurations**
  OS Supported: Windows 10, 11
  USB Port: USB 2.0 or USB 3.0 High Speed

- **Minimum System Requirements**
  Processor: Core i5 processor at 2.7 GHz
  RAM: 4 GB
  Free Hard Disk Space: 20 GB

Typical Testing Configuration

ANNUAL SOFTWARE LICENSE - Frontline Harmony

The Annual Software License for Harmony LE Tester and associated Frontline X240 Wireless Wideband Analyzer ensures that your product is up to date with the latest software updates and features, Bluetooth Special Interest Group TCRL releases, and firmware. Your conformanceHarmony product comes with one year of the Annual Software License and includes:

- Access to all Bluetooth Low Energy test cases in the current TCRL – CAT A and CAT B
- Updated test case coverage for TCRL Releases (2 per year) and incorporation of any TSEs
- Ability to request verification/debug of test case functionality for your implementation
- Product bug fixes

Ordering Information

Product Description
Frontline Harmony LE System Bundle
*conformance*Harmony Annual Software License

Product Code
2014-25400-000
2016-25100-001

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绿测科技有限公司

广州总部：广州市番禺区陈边村金欧大道83号江潮创意园A栋208室
深圳分公司：深圳市龙华区龙华街道 油松社区东环一路1号耀丰通工业园1-2栋2栋607
南宁分公司：广西自由贸易试验区南宁片区五象大道401号五象航洋城1号楼3519号
广州分公司：广州市南沙区凤凰大道89号中国铁建·凤凰广场B栋1201房
电话：020-2204 2442
传真：020-8067 2851
邮箱：Sales@greentest.com.cn
官网：www.greentest.com.cn

微信视频号　　绿测科技订阅号　　绿测工场服务号