LitePoint IQcell LTE Turnkey Solution

LTE is rapidly being adopted in mission-critical IoT applications such as health monitoring, automotive connectivity, industrial automation and smart city deployment.

Continuous, reliable data connection is essential, as any drop in data connection can result in serious consequences. The IQcell LTE Turnkey solution offers a quick, simple, and accurate approach to testing the quality of the LTE connection in the IoT device.

Turnkey solution system

Based on the IQcell 2-port configuration, LitePoint has developed an integrated test system that provides rapid quality assessment of the LTE module in your IoT device. The solution is easy to setup and intuitive to run. No test script development is required, as all necessary scripts are provided with the LTE Turnkey solution.

True end-user experience testing

The test system performs actual signaling testing, which simulates true live-network scenarios. You can directly correlate your product's lab test result to its performance in the field. By performing signaling testing using IQcell, you can ensure the device's antenna is installed properly, the cellular module is assembled and calibrated correctly, your system software is loaded and running, and your device is ready for use in the intended global region.

Auto-Sensing of DUT capability

Not sure of the LTE band and channels your IoT device supports? The innovative Auto-Sensing feature provided with the IQcell LTE Turnkey solution automatically detects your device's band capability and generates the appropriate test script.

Intuitive One-Button GUI

Using the LitePoint IQflowRunner software, you can run LTE testing on your device with the simple click of a button.
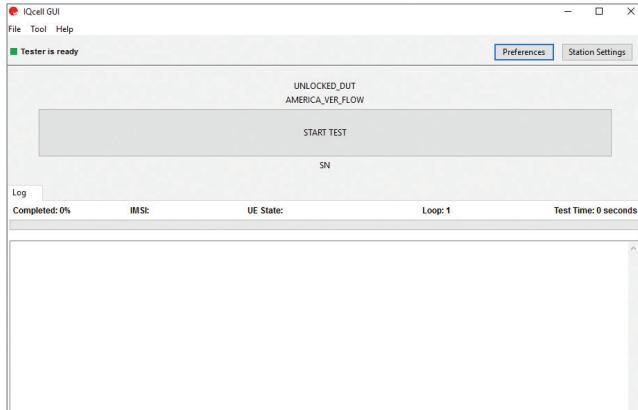
The test result is a straightforward pass or fail.
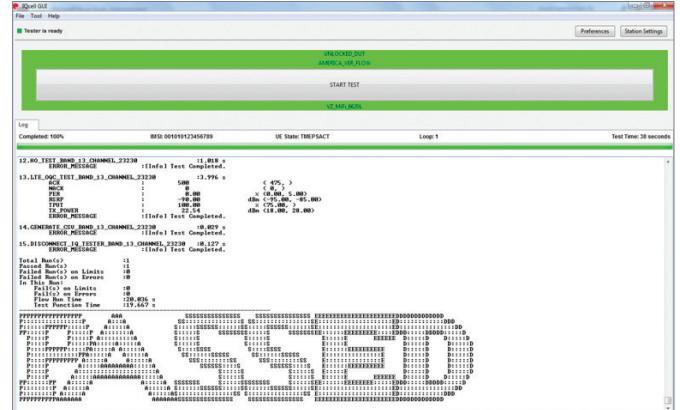
Comprehensive test cases

The included test cases provide an assessment of the quality of your LTE module, and ensure appropriate test coverage and test efficiency.

Transmitter tests

1. **Max Output Power** – Determines if the device is able to transmit the appropriate output level
2. **Tx Quality** – Checks the quality of the modulated transmit signal

Receiver tests

1. **Rx BER** – Checks the quality of the receiver by measuring how well it demodulates the input signal
2. **Receive Signal Strength Indicator (RSSI)** – Checks the accuracy of the received signal strength reading across the dynamic range, down to the sensitivity level

Ordering and Configuration

The following license bundle constitutes the IQcell Turnkey solution.

Part Number	Description
0100-CELL-002	IQcell Test System – 2 port, Includes IQOperator Software
0150-CEL-002 / 0150-CELL-003	Test SIM Card Dual 2FF & 3FF / Test SIM Card Nano 4FF
0300-CELL-003	LTE Signaling SW License

LITEPOINT

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