

KT-RFCT 2400A

Drop the Cost of IoT Test with Konrad Technologies

Key Benefits

- Low Cost Test System
- Calibrated
- Easy Integration
- Small Footprint
- GPIOs for controlling the DUT and peripherals
- Communication interfaces like SPI, I2C, UART and CAN



Featuring

- 70 MHz to 6 GHz frequency range
- Cost effective Go/No-Go tests
- BT Signaling - Standards Supported up to 4.1 and LE
- WIFI Signaling Standards Supported a, b, g, n, ac
- Rack mount option
- Expansibility for the future

Overview

An efficient all-in-one solution for testing today's low cost Internet of Things devices. The new KT-RFCT has 4X more processing power and a robust interface. The low price point creates a cost effective means for testing wireless communication units, while generating a favorable cost to performance ratio.

Application and Technology

The KT-RFCT 2400A is the perfect test system for a wide range of testing, such as Bluetooth Testing, Infotainment Testing, Keyless Entry Testing, Tire Pressure Measurement Testing, GPS Testing and WIFI Testing.

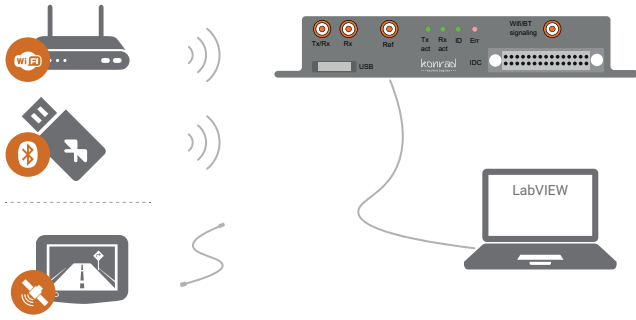
Software

- Fully controllable by LabVIEW
- Able to use text based languages C++ and Python
- The LabVIEW API can be used together with most of NI's versatile software packages
- Soft-front-panel for simple interaction with the instrument

Wide Range of Software Packages Available

- Application specific APIs e.g. Keyless Entry
- Support for customer specific plug-ins
- Predefined TestStand steps for easy integration





Hardware Specifications

- 12 V power supply
- Calibrated inputs and outputs
- 70 MHz to 6 GHz frequency range
- Up to 20 Msps quadrature sampling (20 MHz instantaneous bandwidth)
- 0 dBm maximum output power
- -10 dBm maximum input power
- Intrinsic ± 2 ppm frequency accuracy - Can be increased by leveraging an external oscillator

Additional Software Recommendations:

Not included and require a separate license.

Signaling Connection

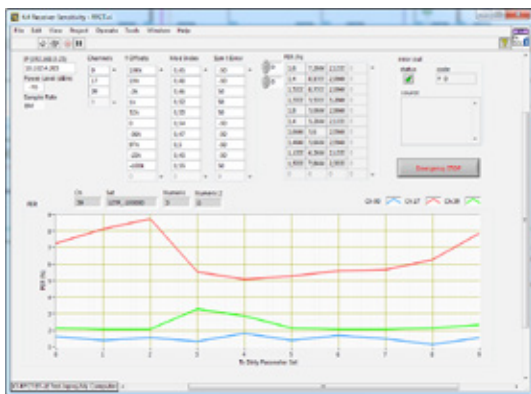
WiFi Plug-In

Includes an iPerf interface for testing the connection.

Complete user interaction can be provided upon request and directly tailored to custom needs.

Bluetooth Plug-Ins

- BT-LE interaction to read and write values to/from a peripheral.
- BT-LE peripheral plugin - Instrument can act as a peripheral. This can be used to check the GATT interaction of a central module.
- BT Serial Protocol (SP) - Server offers an SP service and echoes the retrieved data. Multiple clients can be connected.
- Custom features tailored to customer requirements.



BT-LE Receiver Sensitivity Example

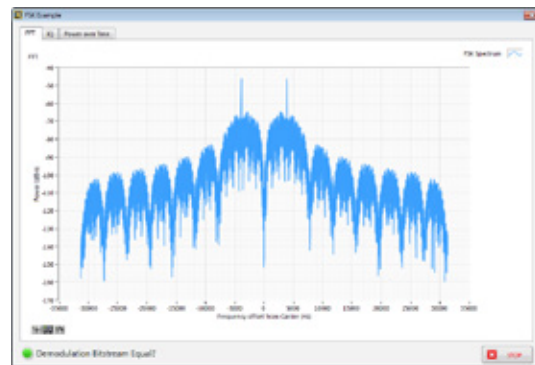
Non-Signaling Connection

Based on NI LabVIEW Toolkits

- Bluetooth
- WIFI
- GPS

Signal Analysis

- Power measurement
- Frequency measurement
- Bandwidth measurement



Keyless Entry Example

Konrad GmbH

Fritz-Reichle-Ring 12 – 78315 Radolfzell – Germany

T: +49 (77 32) 98 15-0

F: +49 (77 32) 98 15-104

info@konrad-technologies.de

Contact us!

Call us and start discussing your test requirements with our experts today! Our high qualified technical sales and project management team assists you in finding appropriate solutions for your test demands.