



New Product Release

## ProxiLAB Quest

Featuring One-click Characterization with Quest Performance Explorer



**KEGLABS**



# Quest Testing Platforms

In the quest to improve product performance and reliability, having the right testing tools is essential to understanding and optimizing technology.

KEOLABS' Quest line of testing tools challenge technology and provide insights into performance in order to help users clearly understand and overcome problems with ease and efficiency.

## Master State of the Art Instrumentation in a Single Click

**Quest**  
PERFORMANCE EXPLORER

**KEOLABS' Quest line of testing tools** delivers state of the art characterization capabilities with unprecedented ease-of-use through the new **Quest** software environment.

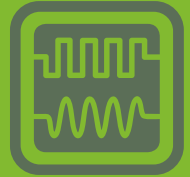
Quest provides characterization tests as preconfigured **scenarios**. These scenarios control the tester's programmable features to enable single-click access to contactless tests such as waveform analysis and performance profiling.

The scenario's configuration, description, scripts, traces and results are all stored in a workbook file that can be easily shared with others using the **free** Quest software.





# ProxiLAB Quest



## Contactless Characterization & Testing

Explore, prototype and characterize 13.56 MHz contactless technologies in smart cards, readers & NFC enabled objects.

### Programmable Features

Redesigned architecture delivers new features to support device testing and characterization including:

- **Accurate Arbitrary Waveform Generation (AWG)**
- **Advanced I/Q demodulation**
- **20 dBm Vectorial Network Analysis (VNA)**
- **Pre-equalizer filtering**

Emulates card/reader signals at analog and digital levels with full control of all signal parameters to enable:

- **Protocol conformance verification**
- **Characterization**
- **Card/Reader waveform analysis**
- **Card EMD profiling**
- **True-waveform signal replay**
- **Resonance frequency / Q factor**
- and more...

### Supported Protocols

- **ISO/IEC 14443 (A/B/B'), Mifare™**
- **VHBR (ASK, PSK to 27 Mbs)**
- **ISO/IEC 15693, 18000-3**
- **Felica™ (JISX 6319)**
- **NFC-IP1, -IP2 (ISO/IEC 18092, ECMA 340)**



### Hardware Interfaces

- **Ethernet**
- **USB 3.1**
- **3 General purpose I/O**
- **2 Extension HDMI**
- **2 Analog inputs**
- **2 RF outputs**



### Validation Solutions & Test Benches

- **EMVCO**
- **ICAO / ISO/IEC 18745-2**
- **NFC Forum**
- **ISO/IEC 10373-6**
- **CEN TS 16974-2**

# KEOLABS

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