

EVA™ III

WIRELESS POWER EVALUATION TOOLS FOR THE KITCHEN

With over 25 years of experience, nok9 is the world-leading supplier of complete solutions for reference test tools in wireless charging and optical media.



Developed by nok9, sole provider of compliance and reference tools for Qi (BPP & EPP)

Focused on performance testing of wireless power designs for kitchen appliances

Easy to use, with two separate modules for transmitter and receiver emulation

Designed to test the full specification of the Cordless Kitchen developed by the WPC

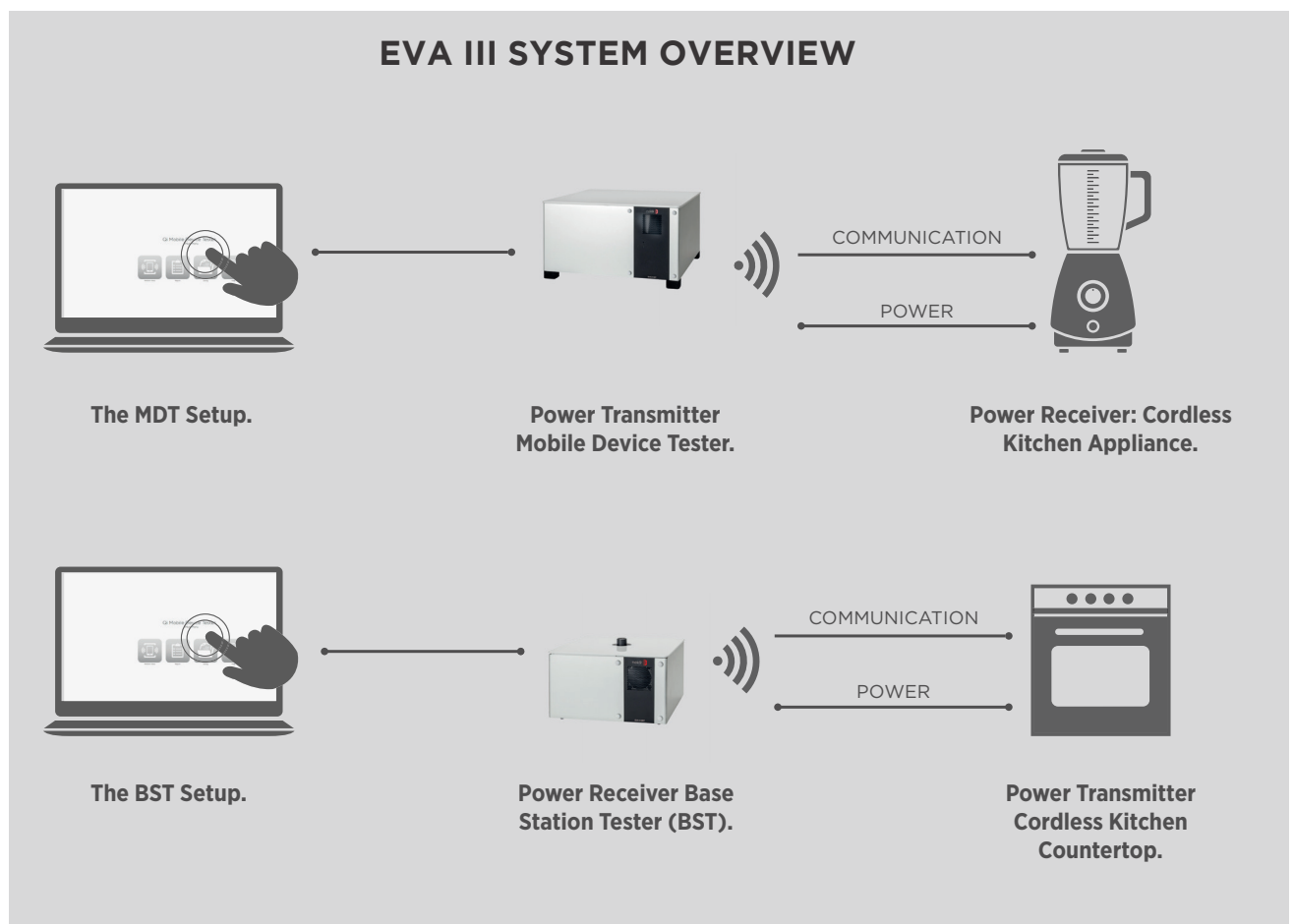
Cost-effective system for wireless power product design and interoperability testing



MEET THE EVA III

EVA III is the first comprehensive set of evaluation and compliance tools designed for performance testing and evaluation of wireless power devices within the emerging Cordless Kitchen specification from the Wireless Power Consortium (WPC).

The EVA III system includes two primary units: the Base Station Tester (BST), with separate load boxes to test a transmitter, and the Mobile Device Tester (MDT) to test a receiver. In addition to this core configuration, the system connects to a host computer via a USB connection, and it features a dynamic user interface that provides adjustable settings and parameters to fit individual product development and evaluation needs.



STATE-OF-THE-ART FEATURES

- Powerful, flexible test tool for thorough and accurate testing and monitoring of cordless kitchen products
- Forward compatible with evolving wireless power specifications
- Tuned to meet WPC Cordless Kitchen specifications and maximize measurement accuracy
- Developed for use in R&D and product development applications

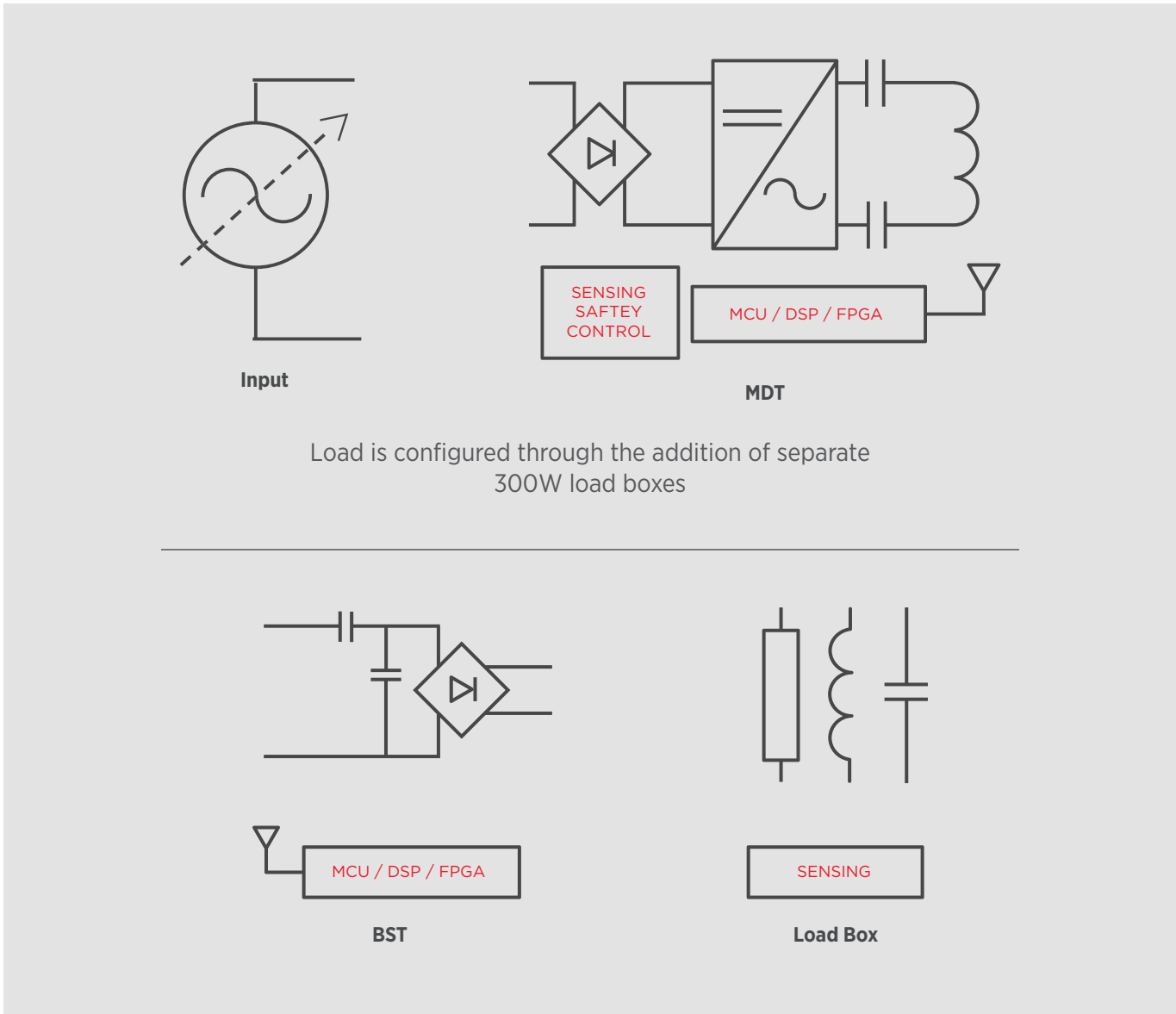
TWO MODULES - A FULL RANGE OF TESTING OPTIONS.

MOBILE DEVICE TESTER (MDT)

- Used to emulate an appliance designed for Cordless Kitchen specification created and managed by the WPC
- Targeted at manufacturers of kitchen countertops, stoves, the device that generates the electromagnetic field.

BASE STATION TESTER (BST)

- Used to emulate a kitchen countertop designed for the Cordless Kitchen specification created and managed by the WPC
- Targeted at manufacturers of kitchen tools such as blenders, coffee makers and similar appliances - the device that harvests the electromagnetic field



TECHNICAL SPECIFICATIONS

All specifications are subject to change without notice.

MDT

- For countertop manufacturers
- Supports all three power classes and sizes
- Compatibility with universal mains (90-260VAC, 50-60Hz)
- State of the art measurement of:
 - Voltage
 - Power
 - Temperature
 - Efficiency
 - Current
 - Phase
- Provides analysis of the load dumps/steps
- Fully customizable PID-based regulation method (frequency and/or phase)
- Communication
 - Fully equipped out of band communication link
 - Fully customizable packet content/sequence/ baud rate
 - According to the WPC Cordless Kitchen spec
 - 13.56MHz out of band communication channel
 - NFC compatibility
- User Interface
 - Adjustable settings and parameters to fit individual product development and evaluation needs
- Safe Measurement tool for mains operated equipment
 - Internal Scope (Internal measurement circuits that isolate high voltage signals from the operator)
 - Over voltage/over current protector
 - Emergency Stop
- Lightweight portable system
- Frequency ranges
 - Series Resonance at 33KHz (Tuneable through GUI)
- Foreign object detection (FOD)
- Provides common failure scenarios for RX to handle gracefully

BST

- For appliance manufacturers
- Emulates different types of loads
 - Heater - kettle/rice cooker (up to 2.4KW)
 - Motors - blender/food processor
 - Modular interface of load boxes allows for stacking/combining of loads
 - Coil Box/RX Box supports all three power classes and sizes
 - Compatibility with universal mains (90-260VAC, 50-60Hz)
- Load Disconnection
 - Advanced analysis of load transitions /load disconnect/load dumps/load steps
- State of the art measurement of:
 - Voltage
 - Power
 - Temperature
 - Efficiency
 - Current
- Communication
 - Fully equipped out of band communication link
 - Fully customizable packet content/sequence/ baud rate
 - According to the WPC Cordless Kitchen spec
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WE SET THE STANDARD—

Every test and evaluation system from nok9 is the product of over 25 years of specialized expertise. Each of our test tools are hand-built with the highest quality components and put through the industry's most rigorous testing, quality control and calibration protocols prior to deliver. As an active member of the WPC, we contribute our knowledge and experience to developing improved wireless power specifications based on the Qi global standard and provide certified testing solutions that are driving the industry forward. Under nok9 Standards, we develop specialized interface standards designed to expand the possibilities of wireless power technology.

For more information, visit nok9.com.

OUR REFERENCES

DEVICE



AUTOMOTIVE



CHIP/SEMICONDUCTOR



ENGINEERING & COMPONENTS



IOP LABS



TEST LABS

