

# XCAL-Solo II Handy Solution embedded in Smart Phone

## Smartphone based network QoS and QoE logging solution including Voice MOS

XCAL-Solo2 is a handheld Air interface measurement tool for QoS/QoE test for GSM, CDMA, WCDMA, LTE-A(Up to 5CA), **NB-IoT and 5G NR** without any limitation by attaching portable H/W to Smartphone to cover wide range application testing, including Audio MOS measurement, network measurement and data on the smart phone in real time base.

XCAL-Solo2 also support creating and editing measurement scenario and various auto call test(Voice, VoLTE, FTP, Web, E-Mail, Iperf, Ping, Youtube, Multi-Call, Multi-RAB, Multi-Session, **UDP-only IoT**) with user friendly touch interface from Android OS GUI.

### Use XCAL- Solo II to

- Perform handheld Field Testing and in-building Testing
- Provides real time based RF data monitoring and statistics with message, graph and table
- Portable design for gathering and checking DM log, main KPI information readily
- Collecting full DM data by using smart phone

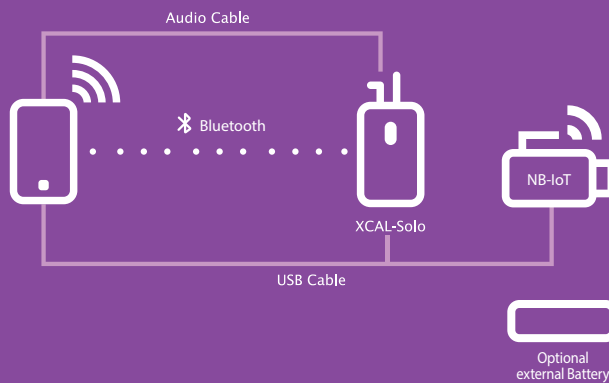
### Benefits

- Overcome the limits of XCAL-Mobile by connecting portable H/W
- Can be used without any limitation on the smart phone supporting DM interface and Linux driver
- Support POLQA since it has sound card in portable H/W and audio interface with cable
- With the help of small H/W, DM is collected in portable H/W through USB DM interface like XCAL
- Important KPIs are echoed to a LCD Screen of Smart Phone in real time from a portable H/W
- Auto call is running in XCAL-Mobile and logging file is stored in portable H/W

### Application of XCAL- Mobile based solution

Contents	Mobile	Solo II	Harmonizer
Autocall Support	O	O	O
No. of test (Interwork) devices	1	1	12
Field Test	O	O	O
In-building Test	O	O	O
MOS test	O	O	O
Single Benchmarking Test	X	X	O

### XCAL-Solo System Configuration



### Features

Collecting and checking RF information	Collecting RF info from Smart phone in real time
	Show each classified technology of RF info with message, graph, table and Google map
Support in-building measurement	Processing measurement by applying building info and layout of each levels
	Processing measurement of fixed and mobile point of each levels based on arranged auto call scenario
Support automatic call measurement	Create and edit auto call scenario by application in smartphone
	Connect and disconnect voice and data call automatically
Support automatic error reporting	MOS measurement by using POLQA
	Automatic error reporting by screen capture function
Various functions	Automatic error reporting to technical support team
	Uploading and replaying previously measured log file
	Monitoring and reporting status of H/W
Real time measurement monitoring	Check Quick guide manual in application
	Real time monitoring of measured data on application window
	Automatic uploading of measured log file
External Battery	Check history of measurement on Call Result History window
	Check measured data on Google map
	Available for a longer operation

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## H/W Specification

Title	Spec
Operating Power	5Vdc/3.0A(Max)
CPU	2.0GHz ARM Cortex-A15(Quad) + 1.4GHz ARM Cortex-A7(Quad)
OS	Android
Bluetooth	Bluetooth 4.1
Memory Slot	System : 8GB eMMC 5.1 Data : 32GB Micro SD Card
Phone Interface	USB2.0 x1 Line In/Out x1
Weight	241g



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