

XCAL-MPm4 MOS measurement

Multi-Port Hub for Voice MOS testing up to 4 UEs

XCAL-MPm4 is the smallest and yet most flexible of Accuver’s network benchmarking solutions. The XCAL-MPm4 scales four ports (supporting four simultaneous phones). Each port comes with its own individual sound control, allowing independent standard-based voice quality (MOS) testing that can be used for both mobile-to-mobile or mobile-to-landline test scenarios.

The unique feature of this tool is that any phone that supports Bluetooth, can be used for voice quality analysis – proving that high quality, scalable and robust network benchmarking tools need not cost the earth.

Use XCAL-MPm4 to

- Perform network benchmarking tests using up to four mobile phones
- Voice QoS – carry out standards-based voice MOS tests
- Smartphone-based voice QoS
 - Use any smartphone that has Bluetooth

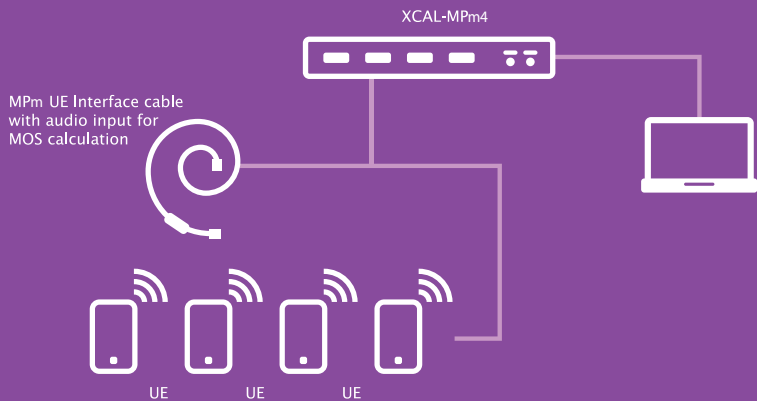
Features

- Support MOS test with XCAL
- Support up to 4 devices
- Support CS and PS call test
- Support VoIP and VoLTE call test
 - : Packet Loss, RTP Throughput, Delay, R-Factor, RTP Packet Count, Round Trip Time, etc.
- Support various QoS algorithm
 - : PESQ : P862, P862-1, P862- 2
 - : POLQA : P863 (Super Wide as well) Narrow Band & Wide Band
- Bluetooth – MOS cable interchangeable
 - : Device control and sound source transmission by BT cable
- Support M2E (Mouth to Ear Delay) test
- Capacity Expandable by multi MPm units

XCAL-Smart applicable

- App execution and result reporting by device
- Auto control of Voice/Data Call
- Automation of app execution and operating test App
- Collecting RF information through API
- Real time communication with DM through tethering/turnelling

XCAL-MPm4 System Configuration



* XCAL-MPm is solely unusable (use by interworking with XCAL)

Benefits

- Cost-effective solution for competitive network benchmarking and assessment
- Highly portable and lightweight
- Flexible choice of test handsets
- AC or DC powered
- Supports wide range of handsets and CPEs
- Auto-configuration with XCAL
- Standards-based MOS measurement
- Supports both mobile-to-mobile and mobile-to-landline test scenarios
- Supports MOS testing with Bluetooth-enabled features and smartphones
- Supports multiple 4G VoLTE Performance measurements in parallel
- Supports multiple 4G LTE Data Performance measurements in parallel with Smart Feature

XCAL PC Based Solution Capacity

Contents	XCAL	MPm4	PU9	MO III	sMTS	MTS
Autocall Support	O	O	O	O	O	O
No. of device interfacing	4	4	9	30	20 (/ 1 Rack)	60~120 (/ 1 Rack)
Field Test	X	O	O	O	X	X
In-building Test	X	X	O	X	X	X
MOS Test	△ Support with XCAL-S+	O	O	O	△	O
Benchmarking Test	X	O	O	O	O	O

XCAL-MPm4 MOS measurement

Specification

Title	Spec	Note
Power Input	12 ~ 24VDC	Typ. 19VDC Dual power input Connector
Power Consumption	Stand-by : < 10 W Maximum : 50 W (with mobile phone x 4)	
Host Interface	USB2.0 Type-B	USB 2.0
External USB	USB2.0 Type-A	PC Interface port
Phone Interface	Connector : Molex-20 Pin connector USB2.0, UART, Audio In/Out	4 ports
Size	230 x 32 x 117 (mm, W x H x D)	
Weight	< 0.8 Kg	



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