

m•reph30.

A wideband 2.4 GHz signal analyser and generator. Specifically designed for PHY Layer Testing includes a full bandwidth, high dynamic range transmitter, a CW signal generator covering 25MHz to 6GHz with a typical output level of -50 dBm to -28 dBm has both development and production test options.

KEY FEATURES

- Support for BR/EDR, LE, QBHSL, IEEE 802.15.4, LE Audio and customized PHY's.
- Fully programmable signal analyser and generator.
- Diverse application support with open APIs.
- Ultra-linear receiver and transmitter.
- Built-in 6GHz CW source. Small footprint 159mm x 150mm x 47mm
- Simultaneous monitoring of all WiFi channels.
- USB and Ethernet host interfaces.
- Development and Production Test options
- Test and measurement options all via applications. Small footprint 159mm x 150mm x 47mm
- Upgradable to a Protocol Analyser via blueSPY.
- Small footprint 159mm x 150mm x 47mm



SUPPORTED APPLICATIONS

Production testers	Bluetooth 5.3 Low Energy RF Tester
	Bluetooth LE AoA/AoD extension
	Bluetooth 5.3 BR/EDR RF Tester
	802.15.4
	QBHSL RF Tester
Packet sniffers	Bluetooth® Low Energy
	Bluetooth® BR/EDR
	802.15.4
	QBHSL
Traffic generators	Bluetooth® Low Energy
	Bluetooth® BR/EDR
	WiFi b/g/n
RF record and playback - 90MHz bandwidth x 2 hours upgrade	

TECHNICAL SPECIFICATION

RX INPUT: HIGH SENSITIVITY

Connector type	SMA
Noise figure	6dB
IP3 @ max sensitivity	+7dBm
SNR in 1MHz bandwidth	80dB
Maximum input signal	+27dBm
Maximum usable signal	-10dBm
Instantaneous bandwidth	2401 - 2481 MHz
Impedance	50Ω
Coupling	AC
Maximum DC voltage	50V

RX INPUT: LOW SENSITIVITY

Connector type	SMA
Noise figure	46dB
IP3 @ max sensitivity	+47dBm
SNR in 1MHz bandwidth	80dB
Maximum input signal	+27dBm
Maximum usable signal	+27dBm
Instantaneous bandwidth	2401 - 2481 MHz
Impedance	50Ω
Coupling	AC
Maximum DC voltage	50V

TX OUTPUT

Connector type	SMA
Instantaneous dynamic range	>80dB typ
Maximum output signal	+3dBm
Minimum output signal	-130dBm
Instantaneous bandwidth	2401 - 2481 MHz
Impedance	50Ω
Coupling	AC
Maximum DC voltage	50V

CW SOURCE

Minimum frequency	23.5MHz
Maximum frequency	6GHz
Minimum power	-50 dBm
Maximum power	-28 dBm

EXTERNAL CLOCK INPUT

Connector type	SMA
Maximum input signal	-10dBm
Minimum input signal	+20dBm
Frequency	10 MHz
Impedance	50Ω
Coupling	AC
Maximum DC voltage	50V

DIGITAL IO

Connector type	20pin IDC
Number of inputs	8
Logic input high	2.4V (min)
Logic input low	0.9V (max)
Number of outputs	8
Logic output high	3.2V (min)
Logic output low	0.1V (max)
Output current	±6mA

USB

Connector type	Type-C
Speed	High speed
VBUS load	2.2μF, > 10kΩ

ETHERNET

Connector type	RJ-45
Speed	10/100/1000

POWER

Connector type	1.7mm jack
Input voltage	9V
Power	15W (application dependent)
Reverse polarity protection	Yes
Over voltage protection	Yes
Under voltage protection	Yes

REGULATORY APPROVALS

Europe (CE)	EN61326-1:2013 EN55011:2009 EN55032:2012
US (FCC)	CFR 47 Pt 15 B