

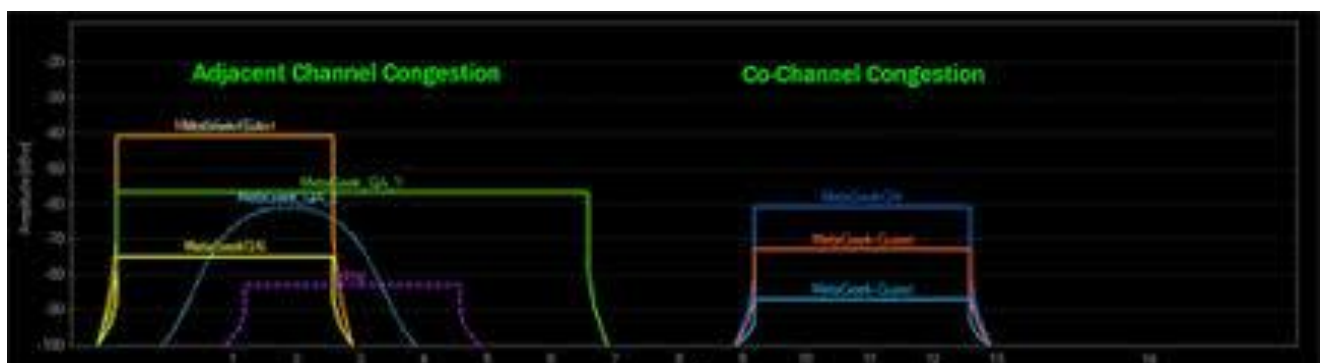
MT-Wave Wi-Fi Traffic & Interference Generator

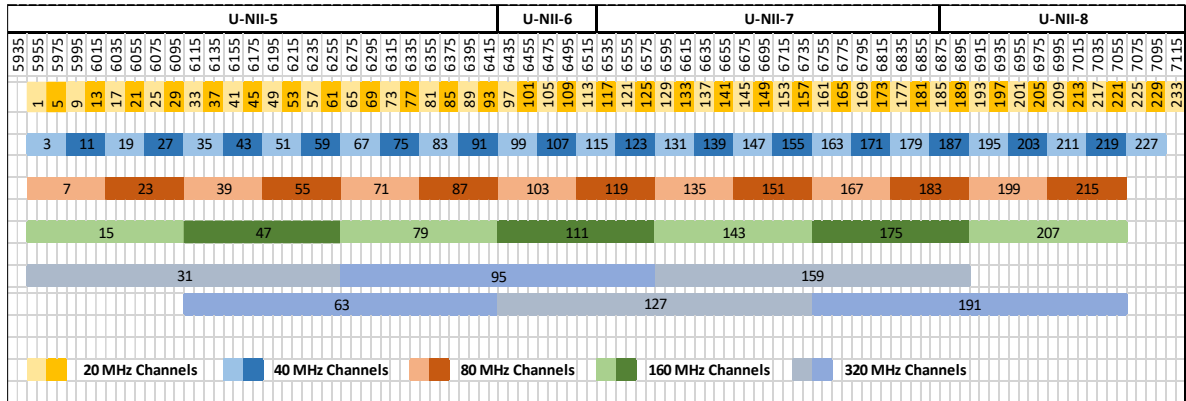
The MT-Wave is a Wi-Fi traffic and interference generator supporting very good accurate dynamic power range of +20dBm to -30dBm irrespective of all the MCS rates, bandwidth. It also supports controlling the inter-frame spacing as low as 16 uSec (equivalent to SIFS) and generates maximum realistic congestion in the network)



Features/Benefits

- Frequency range: Supports all 3 bands – 2.4GHz, 5GHz and 6GHz. Most Wi-Fi Channels are supported
- Supports both link mode and non-link mode
- Co-channel and Adjacent Channel interference generation with accurate control over power level
- Output Power Range: +20dBm to -30dBm
- Supported standards: IEEE802.11ax/ac/n/legacy including 6E
- Supported Bandwidth: 80, 40, 20 MHz
- Supported WMM Priorities: Voice, Video, Best effort, background
- Configurable parameters: Standard, Channel, Bandwidth, MCS rate, WMM priority, IFS, Power level and Payload
- Emulation of realistic controlled traffic generation



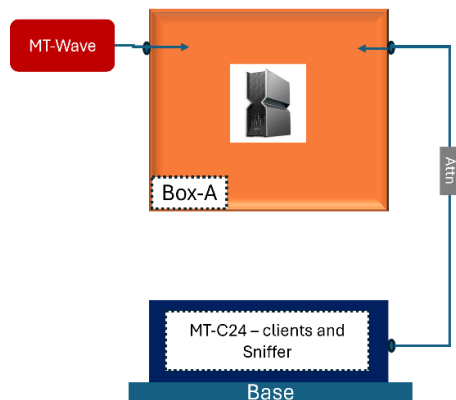


Specifications

Parameter	Specification		
Supported Bands	2.4, 5 and 6GHz		
Power Range	+20dBm to -30dBm		
Power Accuracy	+/- 0.5dB		
Bandwidth	20, 40 and 80 MHz		
IEEE Standards	6E/802.11ax/ac/n/legacy		
WMM Priority	Voice, Video, Best effort and Background		
RF Channels	All the channels are enabled		
Packet Duration	Configurable		
Inter Frame Spacing	16 uSec to 400 uSec		
Congestion Control	Configurable		
Frame aggregation	AMSDU and AMPDU		
Frame Types	Data, CTS and RTS		
Radar Pulses	Pulse Width(uSec)	Pulse Repetition(Hz)	Number of Pulses
Radar type-1(FCC)	1	1428	18
Radar type-2(FCC)	1	600-1800	20 to 60
Radar type-3(FCC)	3.5	200-300	25
Radar type-4(FCC)	6	400	18
Radar type-5(ETSI)	1	1500	18
Radar type-6(ETSI)	1	1000	20
Continuous Wave	Supported		

Test Configuration

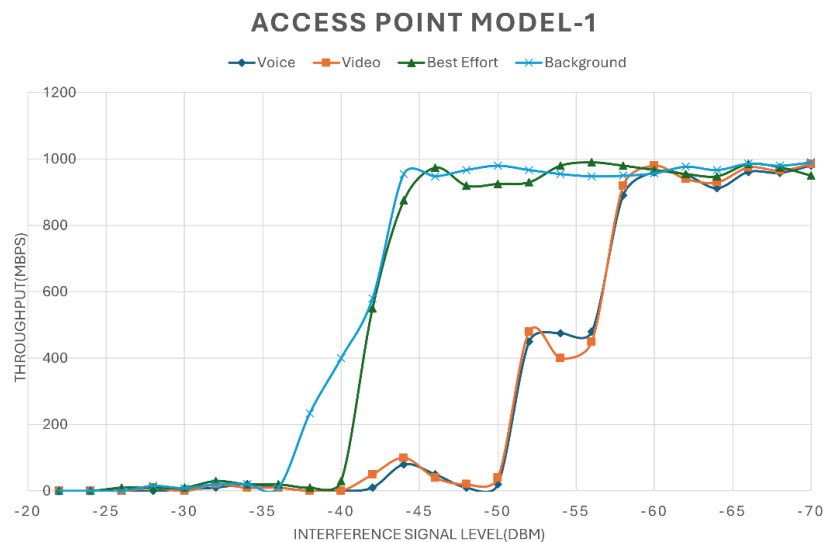
MT-SYS1:

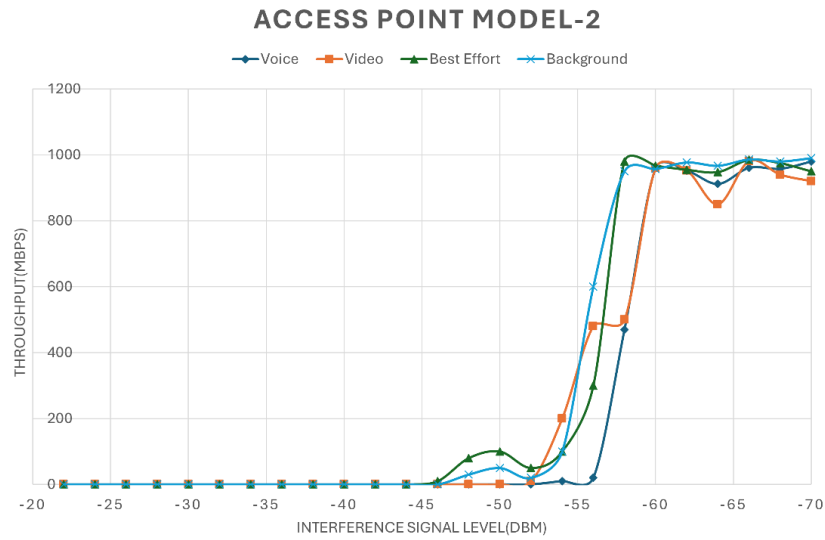


- MT-C24 Comes with 24/48 individual radios supporting RVR, RVRO, MLO – EMLSR/MLMR, preamble puncturing, Multi-RU, sniffing, band-steering
- Wi-Fi 7 supported and backward compatible
- 2x2 MIMO radios, peak performance up to 5Gbps at 6GHz band
- Unique design to achieve higher RSSI dynamic range, easily adapt 4K QAM MCS13
- MT-Stream – single test plan to run multiple test cases
- Supports both commercial and enterprise security protocols

*MT84-A attenuator is used in the setup. It is completely shielded programmable digital attenuator with 95dB of range and 0.25dB of step size, Accuracy ± 0.5 dB

Below are few test results tested with MT-Wave





* Model-1 supports up to Wi-Fi 6E, while Model-2 extends its capabilities up to Wi-Fi 7 (802.11be). To ensure a fair and accurate comparison, MT-C24 is configured to 802.11ax 6E interface.

*Above mentioned interferer signal levels are including Over-The-Air (OTA) and Cable losses