

WiCheck 6E Radiohead

For All Your Wi-Fi 6E Test Needs

FEATURE HIGHLIGHTS

- 64 Wi-Fi 6E Emulated Clients
- 6 GHz Band support
- MU-MIMO Capability
- Run Real Applications
- 150+ Built-in test cases
- WPA3 Authentication
- BSS Coloring
- Beamforming
- 1024 QAM
- Scalable to 100s of Wi-Fi 6/6E Clients



What Is WiCheck 6E Radiohead?

WiCheck 6E Radiohead is the one-stop solution to your WiFi 6/6E testing needs. Supporting 3 independent radios, each capable of independently generating emulated clients, WiCheck 6E Radioheads can simultaneously test your Access Point across 2.4 GHz, 5 GHz and 6 GHz bands. The Wi-Fi 6E emulated clients are all capable of utilizing the 160MHz channels in 6 GHz to deliver multi-gigabit throughput and low latency connections. These radios work as part of WiCheck D2A test topology to replicate real-world high-density scenarios.

WiCheck 6E Radiohead is designed to help you test the scale of your Wi-Fi 6E enabled Access Point Solution. With each Radiohead supporting a minimum of 64 6 GHz capable clients and 100+ 2.4 GHz & 5 GHz clients, a single Access Point can be tested with a single Radiohead. Combine multiple Radioheads in a D2A system and you can test a whole network with multiple Access Points & controller.

Efficient & Economical Way to Test Wi-Fi 6E

WiCheck 6E Radiohead

Top 6E Specific Test Cases

- Maximum throughput at scale
- Maximum simultaneous connections
- Throughput benchmark vs Wi-Fi 6
- Access Point Benchmarking
- Video streaming tests at scale (HD / 4K / 8K)

Applications

- Measurement
 - iPerf, iPerf3, Ping, FTP, Speed Test
- Productivity
 - DropBox, E-Mail, Bit Torrent, Voice calls, Browsing, Videoconference
- Video Streaming
 - YouTube, DRM, DASH, Local video
- Social Media
 - Facebook, Twitter, LinkedIn, Flickr, Instagram
- IoT/M2M
 - MDNS / Bonjour, MQTT, COAP
- Simulated Games
 - Quake3, Counterstrike
- Others
 - TCP Capture / Replay Data streams
 - Latest Games, AR/VR*, 8K videos

More on the way....

Technical Specification

Hardware

- Dimensions: 240mm x 220mm (w/o antenna)
- Weight: 3.2 kg
- 2U form factor

Wi-Fi 6/6E

- 3 radios / radiohead (Total of 280 clients)
 - 6 GHz: 64 clients
 - 2.4 GHz: 108 clients
 - 5 GHz: 108 clients
- NSS: Up to 4x4
- BSS Coloring
- MCS 10/11

RF

- RP-SMA / removable, omni-directional antenna
- Can be operated OTA and over conducted medium
- External attenuator (optional) for RVR type scenarios

Other

- 10Gbe connection to traffic generator
- Up to 8 radioheads per system
- Max throughput per radiohead: 3.8 Gbps*
- WPA3 support with 802.11 ai*



Note: Features with * may depend on the Access Point / in the road map

Alethea's SWAT WiCheck 6 D2A system is a full-fledged tester that addresses all your Wi-Fi 6E testing Challenges

Upgrade to New Technologies

With D2A architecture, an upgrade to Wi-Fi 7 or other future technologies is as simple as plugging in new Radioheads. It's easier to scale up on-demand. Invest when you need, not upfront.

Scale + Technology + Interop

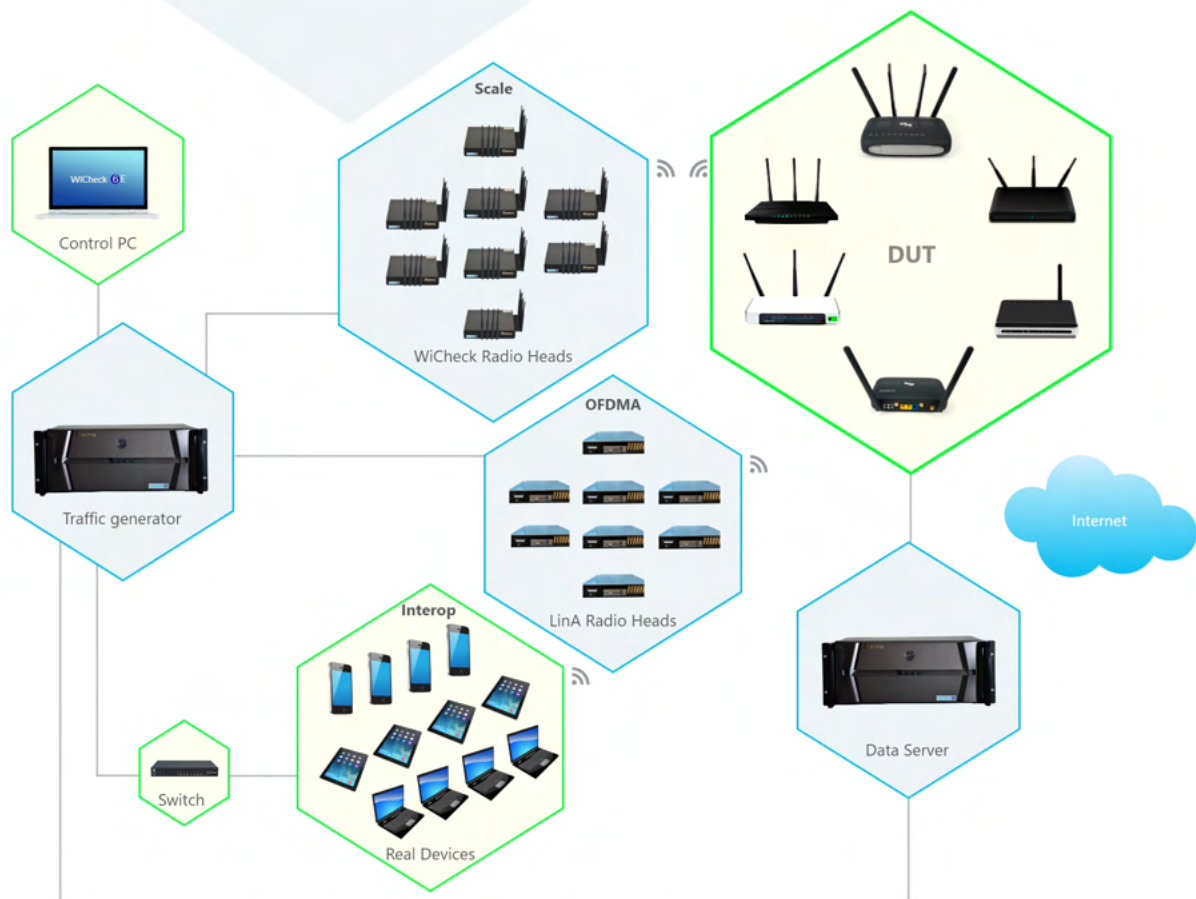
With WiCheck 6 D2A, scale to 2200+ emulated clients (Wi-Fi 6, Wi-Fi 6E and legacy), 90+ OFDMA / TWT capable clients, & 100+ real devices. Test scale, functionality & interop at the same time.

Value added Feature Testing

Each Radiohead can be spatially distributed over 100m from the Traffic Generator to enable real world test scenarios. Along with Wi-Fi 6E specific features, test with real applications and assure seamless connectivity experience in all scenarios.

Easy to Use

Based on radioheads that can work over air, Alethea's WiCheck radioheads remain the easiest to use in RF chambers, lab, desktop and even in the field and still deliver multi-gig test vectors.



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Alethea works with diverse industries to accelerate the development, validation and deployment of broadband technologies worldwide.



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