

# Spirent VisionWorks E5

## Indoor/Outdoor Test Platform

### Providing Over-the-Air Testing for 5G, LTE, and Wi-Fi Networks

The **VisionWorks E5 Test Platform** delivers a customer-centric diagnostic view of 5G, LTE, and Wi-Fi services at mobile device, RAN, and access interfaces. Offering both indoor and outdoor mounting options, the E5 hosts VisionWorks Test Agents that actively emulate realistic user activity to proactively test mobile networks and services.



The **VisionWorks E5** is a rugged test platform for deployment in indoor or outdoor locations

## Use Cases

The **VisionWorks E5** delivers the visibility and scalability needed to test a wide variety of mobile services including 5G Voice, 5G Data, VoLTE, LTE Data, Messaging, and Video over-the-air using 4G, 5G, and Wi-Fi technology.

- **Performance Monitoring:** Constant visibility into mobile network service performance enables service level monitoring and proactive alarm generation for network operations and service performance.
- **Fault Isolation:** The VisionWorks E5 Test Platform provides the ability to monitor end-to-end service performance remotely and execute active tests providing rapid fault isolation without the need for multiple dispatches.
- **Change Management:** Improve the efficiency and scalability of 4G and 5G wireless service roll-outs and change management. The VisionWorks E5 Test Platform placed at over-the-air test locations enables end-to-end views of service performance.

## Highlights

- The VisionWorks E5 Test Platform enables end-to-end mobile network service monitoring, fault isolation, and change management for 4G, 5G, and Wi-Fi services.
- Mimics real end-user activity by emulating mobile services including:
  - Video
  - Data Services
  - Network Latency
- Integrated over-the-air management with dual SIMs for remote deployments
- Over-the-air test interfaces with radio frequency support for traditional 5G and LTE bands
- Support 5G OTA, LTE OTA, LTE, and 5G RF interfaces to core and Wi-Fi RF interfaces for seamless fault isolation and trouble shooting of both RF and non-RF performance issues

## Product Specifications

### Frequencies

- **5G NR – Sub 6GHz:** n1, n2, n3, n4, n5, n7, n8, n12, n20, n25, n28, n38, n40, n41, n66, n71, n77, n78 & n79
- **LTE-FDD:** B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B18, B19, B20, B25, B26, B28, B29, B30, B32, B66 & B71
- **LTE-TDD:** B34, B38, B39, B40, B41, B42 & B43
- **WCDMA:** B1, B2, B3, B4, B5, B6, B8 & B19

### Data Transmission

- **5G SA Sub-6:** Max. 4.2Gbps (DL)/Max. 900Mbps (UL)
- **5G NSA Sub-6:** Max. 5.0Gbps (DL)/Max. 650Mbps (UL)
- **LTE-FDD:** Max. 2Gbps (DL)/Max. 200Mbps (UL)
- **WCDMA:** Max. 42Mbps (DL)/Max. 5.76Mbps (UL)
- **Protocols:** TCP/UDP/FTP/HTTP/HTTPS/PING/SMS

### Wi-Fi

- 802.11a/b/g/n/ac

### Active Test via LTE/5G Modem

- L3-L7 OTA measurements for Data Service

### Test Features

- **Data QoE:** Over-the-air & wired data performance with support for Speedtest.net and iPERF testing
- **Latency QoE:** Traceroute based latency analysis
- **Capture:** Packet capture including line rate pre-capture filtering

### Mechanical and Environmental

- 7.795" (H) x 2.362" (W) x 7.283" (D) and 6.6 lbs
- Power Adaptor
  - Input 110/220VAC (75 Watt max)
  - Output 12V/5A DC out
- Operating temperature: -20° C to +70° C\*
- Certification: EMC\*, CE/FCC Class A\*, RoHS\*
- Construction: Aluminum

### Management Interfaces

- 100BaseT RJ-45 IP
- LTE (optional):  
B1/B2/B3/B4/B5/B7/B8/B12/B13/B20/B26/B29/B30/B41

\* Projected performance specifications which may be revised upon commercial release of the product.

The **Spirent VisionWorks E-series Test Platforms** are part of the **VisionWorks** suite.

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