



# Spectra2<sup>u</sup>

Ensure Your Revenue Stream  
with the Power of Spectra2



## Spectra2<sup>u</sup> - High Capacity, Low Cost, Energy Efficient Platform

- A single cost effective multi-user computing platform for all protocols
- Functional, load, media, and conformance testing for the core network
- Industry best ease of use and automation
- Up to 500% improvement in signaling and media performance
- Over 200% SIP endpoint capacity increase

## A Test Solution for Your Core Network

NGN, VoIP, and Converged Network Test Solutions

Tektronix Communications introduces the new Spectra2<sup>u</sup> computing platform for the Spectra2 protocol tester product line. Built on an Intel® Dual Quad Core® processing architecture, Spectra2<sup>u</sup> provides significant performance improvements in a smaller energy efficient footprint.

Use the Spectra2<sup>u</sup> to test your NGN, VoIP, and Converged Network elements for functionality, performance and media quality from a single high capacity multi-user test platform.

The Spectra2<sup>u</sup> hosts a PCIe bus that allows for the addition of a new Network Signaling Interface (NSI) board providing a 4x Gigabit Ethernet Interface. The board may be shared across multiple users (up to 4) and supports functional, load, and media testing for all IP protocols (including SIGTRAN based protocols).

### Features & Benefits

- Higher signaling only and signaling + media load rates
- Hundreds of thousands of endpoint emulations
- Faster user response and heightened user experience
- Lower cost per user
- User-shared interface boards
- PSTN & NGN protocol testing from a single interface board
- Field upgradeable capacity adds without adding hardware
- Concurrent usage of Spectra and Spectra2 software applications
- Complete portability of software from legacy platforms
- Portable and rackmount configurations



Item	Spectra2u Hardware
Chassis Configurations	Standard rackmount and portable
Processor	2 x Quad Core INTEL® Xeon® (E5410 – 2.33 GHz) processors
Memory	8 Gb
Disk Space	2 x 320Gb
Power	110-220 VAC
Chassis Slots	2 PCIe 3 PCI
Dimensions	Height 3.45 inches (87.6 mm) Width 17.14 inches (435.3 mm) Depth 20 inches (508 mm)
Operating System	Windows XP
Ethernet GigE Interfaces	10 Ports maximum for signaling and media
T1/E1 Interfaces	6 Maximum for signaling / 16 maximum for TDM media
OC3/STM1 Interfaces	2 for TDM media

Item	Spectra2u Software Application Capabilities
Software Applications	Spectra2, Spectra Classic
Capabilities	Functional/Conformance Testing Load/Stress Testing Media/QoS Testing Monitoring and Troubleshooting
Multi-User	4 Active users Unlimited Passive users
NGN Protocols	SIP, H.248, DIAMETER, XCAP, HTTP, RTSP
VoIP Protocols	SIP, H.323, H.248, MGCP
PSTN/SS7 Protocols	ISUP, TCAP, BICC, ISDN
IP Version	IPv4, IPv6
PSTN Link Types	Low Speed (MTP2/MTP3), High Speed (HDLC/ATM), SIGTRAN (M2PA, M3UA, SUA)
Media Capabilities	Inject media, capture media, detect media PESQ, MOS, R-Factor Quality of Service measurements
Media Types	Voice: G.711, G.723, G.726, G.729, AMR WB/NB, EVRC Tones: RFC 2833, DTMF, SF Video: H.263, H.263+ Fax : T.38
Media Transport	TDM, RTP
Conformance Testing	SIP, H.323, MGCP, H.248, ISUP, MTP2, MTP3, M2PA, M3UA, SUA, SSCOP, TCAP, ISDN, SCTP
ISUP / TCAP Variants	Hundreds of supported protocols and variants

### About Tektronix Communications:

Tektronix Communications provides network operators and equipment manufacturers around the world an unparalleled suite of network diagnostics and management solutions for fixed, mobile, IP and converged multi-service networks.

This comprehensive set of solutions support a range of architectures and applications such as LTE, fixed mobile convergence, IMS, broadband wireless access, WiMAX, VoIP and triple play, including IPTV.

### For Further Information:

Tektronix Communications maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology.

Please visit [www.tektronixcommunications.com](http://www.tektronixcommunications.com)

### Contact Tektronix Communications:

Please visit [www.tektronixcommunications.com](http://www.tektronixcommunications.com)

For complete details on Spectra software and hardware options, please visit [www.TektronixCommunications.com](http://www.TektronixCommunications.com)

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