

# Spectra2<sup>3u</sup>

## Superior Performance for IMS Core Testing

### HIGHLIGHTS

- Consolidated hardware supports multiple functions for improved CAPEX.
- T1/E1 link density simplifies test lab configurations.
- Shared interface boards enable multi-user test environments.
- Compact servers reduce energy consumption and deliver OPEX savings.
- Spectra2<sup>3u</sup> provides high performance testing in a compact footprint.

### State-of-the-Art Testing for Converged Networks

For networks in transition from TDM to IP, NETSCOUT offers Spectra2<sup>3u</sup>. Built and optimized specifically for the telecommunications test and diagnostics market, the Spectra2<sup>3u</sup> leverages an Intel® Xeon Dual Hexa Core® processing architecture to provide high performance in a compact footprint.

A single, high capacity, multi-user test platform can test your IMS, PSTN and LTE Evolved Packet Core for functionality, performance and media quality.

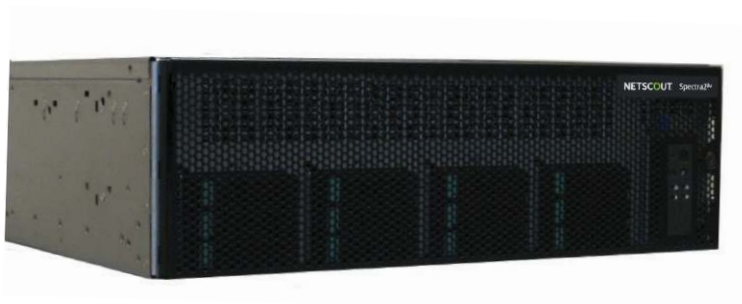
The SMI (Signaling Media Interface) family of hardware modules for TDM and IP environments enable functional, load, and media testing for the majority of TDM, IP and SIGTRAN based protocols.

- TSMi (TDM) boards support T1/E1 and OC3 interfaces.
- IPSMi (IP) boards support 1Gig and 10Gig Ethernet interfaces.

### Higher Capacity, Greater Value

A single, cost-effective, multi-user platform addresses all relevant protocols.

- Support for functional, load, media, and conformance testing for the core network.
- Accommodate more calls per second, more open calls and growing subscriber counts.
- Achieve greater performance at a lower cost per port.



### Spectra2<sup>3u</sup> Platform:

- Simultaneous IP and TDM Signaling
- Simultaneous RTP and TDM Media
- EMS, IMS, VoIP, and Legacy Core Network Simulation

## Specifications

### Spectra2<sup>3u</sup> Hardware

<b>T1/E1 Interfaces</b>	Up to 56 T1/E1 links (28 physical ports)
<b>OC3/STM1 Interfaces</b>	Up to 6 for TDM media
<b>Ethernet Interfaces</b>	Up to 16 GigE ports or two 10 GigE ports with 12 GigE ports
<b>Storage</b>	2 x 300 GB SAS drives
<b>Embedded OS</b>	Windows 7
<b>Chassis Configurations</b>	Standard Rackmount
<b>Dimensions</b>	5.1 in (130 mm) Height 16.9 in (430 mm) Width 20.8 in (528 mm) Depth
<b>Total Chassis Capacity</b>	7 PCIe
<b>Processor</b>	2 x Hexa Core INTEL® Xeon® (2.40 GHz) processors
<b>Memory</b>	24GB
<b>Power Rating (AC)</b>	110-220 VAC

## Specifications

### Spectra2<sup>3u</sup> Software Application Capabilities

<b>Software Applications</b>	Spectra2
<b>Capabilities</b>	Functional/Conformance Testing Load/Stress Testing Media/QoS Testing Monitoring and Troubleshooting
<b>Multi-User</b>	Up to 12 Active Users, 16 Passive Users and More Offline Productivity Users
<b>NGN Protocols</b>	SIP, H.248, Diameter, XCAP, HTTP, RTSP, WebRTC
<b>Diameter Interfaces</b>	Cx, Dx, Ro/Gy, Rf/Gz, Rq, Gx, Rx, Sh, S6a/S6d, S13/S13', S9, Gq/Gq', E2/E4, and more
<b>VoIP Protocols</b>	SIP, H.323, Megaco/H.248, MGCP
<b>PSTN/SS7 Protocols</b>	ISUP, TCAP, BICC and ISDN
<b>IP Versions</b>	IPv4 and IPv6
<b>PSTN Link Types</b>	Low Speed (MTP2/MTP3), High Speed (HDLC/ATM), SIGTRAN (M2PA, M3UA)
<b>Media Capabilities</b>	Inject Media Capture Media, Detect Media PESQ, MOS, R-Factor Quality of Service Measurements POLQA
<b>Media types</b>	Voice: G.711, G.722, G.723, G.726, G.729, AMR WB/NB, EVRC Tones: RFC 2833, DTMF Video: H.263, H.263+, H.264, MPEG4 Fax: T.38
<b>Media Transport</b>	TDM and RTP
<b>Conformance Testing</b>	SIP, Diameter, H.323, MGCP, H.248, ISUP, TCAP and ISDN
<b>ISUP/TCAP Variants</b>	Japan ISUP, UK ISUP, Hong Kong ISUP, Germany ISUP, Brazilian ISUP, AIN TCAP, IS41 TCAP, GSM3 TCAP, and more



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