

# nGenius 3900 Series for Test Lab Automation

## Enabling World-Class Network and Application Test Labs – Improving Efficiency, Speed, and Performance

---

### HIGHLIGHTS

- Patented, non-blocking architecture
  - Scalable to 1,152 OEO ports per chassis
  - Low latency for time sensitive applications
  - Redundant, modular systems designed for high availability
  - Integrated Layer 1 – 4 intelligence
  - Multiple blade options available to meet individual test lab needs
  - Controlled by TestStream Management Software or 3rd party automation systems
- 

### Product Overview

Today's high-performance test labs continue to evolve quickly, creating the demand for agile test lab automation solutions that will evolve and scale along with their needs. NETSCOUT® delivers a line of flexible Test Lab Automation and management products to meet those ever-growing demands. From Layer 1 matrix switches, to scalable high-speed solutions, and even all optical alternatives, NETSCOUT delivers solutions that enable world-class network and application test labs.

NETSCOUT's 3900 Series switches for Test Lab Automation serve as the focal point for managing lab connectivity and topology. The 3900 optimizes test lab operations by combining Layer 1 matrix switching with Layer 2-4 intelligence, in a single platform. It offers flexible pay-as-you-grow configurations, with 1, 3, and 12 slot chassis options and a variety of interoperable optical-electrical-optical blades.

The 3900 family supports a wide range of port speeds and media types for managing network topologies within today's complex test labs. Whether you are managing dedicated high-performance test labs or consolidated global test labs operating in a Lab as a Service (LaaS) model, the 3900 family offers a Test Lab Automation Infrastructure solution that will address those immediate needs as well as your long-term objectives.

### Product Capabilities

- Increased network and application test lab efficiency
- Reduced time required to set-up and test
- Improved overall lab performance
- Savings in both CAPEX and OPEX
- Layer 1 functionality and Layer 2-4 intelligence
- Software-adjustable any-rate blades
- Hybrid electrical and all-optical switching fabrics
- 1, 3, and 12 slot chassis options
- Scalable from 16 to 1,152 ports per system
- Distributed and redundant architecture
- Centralized software control
- Controlled by TestStream software
- Intuitive GUI and 3rd party interoperability

**3901R** | 1 Slot, 1RU

**3903** | 3 Slot, 3 RU

**3912** | 12 Slot, 16 RU

### 3900 Switch Ethernet Configuration Options

	3901R Switch	3903 Switch	3912 Switch
Max 1 GbE Port Capacity	72	216	864
Max 10 GbE Port Capacity	96	288	1,152
Max 40 GbE Port Capacity	24	72	288
Chassis Slots	1	3	12
Rack Units	1	3	16

### 3900 Switch Series Chassis Options

The 3900 Switch family offers three different chassis options to fit multiple test lab scenarios. The switches provide users with secure, remote access to test lab equipment in order to set up, perform, and tear down test scenarios from any location, eliminating the need to physically access the lab.

#### 3901R Switch Chassis

The 3901R switch is a single blade system option that delivers a up to 96 ports of 10G or 24 ports of 40G, in a 1-slot chassis. The 3901R provides blade support for both the S-Blade 64 and S-Blade Pro. The 3901R is controlled by NETSCOUT's TestStream Management Software for ease of management and maximum flexibility.

#### 3903 Switch Chassis

For customer requiring more ports, the 3903 offers up to 288 ports of 10G or 72 ports of 40G in a 3-slot standalone 19" rack mount chassis option. The 3903 supports both the S-Blade 64 and S-Blade Pro and provides fully redundant power and control. The 3903 utilizes NETSCOUT's TestStream Management Software for ease of management and maximum flexibility.

#### 3912 Switch Chassis

If even higher port density is required, the 3912 offers the flexibility of 1 to 12 blades and supports up to 1,152 ports of 10G or 288 ports of 40G in a 16U 12-slot chassis. The 3912 supports any combination of NETSCOUT blades and delivers fully redundant power and control. The 3912 uses pluggable Switch Fabric Modules (SFMs) to expand backplane capacity and supply 4 dedicated QSFP+ back ports for connecting switches using cross switch links (xSLs). The 3912 also utilizes NETSCOUT's TestStream Management Software for ease of management and maximum flexibility.

### 3900 Series Blade Options

All nGenius 3900 Series switch chassis for Test Lab Automation support NETSCOUT's complete blade family, offering the following port configurations:

	SFP Ports	QSFP Ports	Protocols
S-Blade Pro	0	24	Ethernet, CPRI, SAS, OC, FC, OTN, SONET
S-Blade 64	32	8	Ethernet, CPRI, SAS, OC, FC, OTN, SONET
T-Blade	32	4	Ethernet

## SPECIFICATIONS

	3901R Switch	3903 Switch	3912 Switch
<b>Blade Options</b>	S-Blade Pro, S-Blade 64, S-Blade, T-Blade	S-Blade Pro, S-Blade 64, S-Blade, T-Blade	S-Blade Pro, S-Blade 64, S-Blade, T-Blade
<b>Backplane</b>	Integral	Integral	0-8 Switch Fabric Modules
<b>Management Port</b>	10/100/1000Base-T	10/100/1000Base-T (1 per power supply)	10/100/1000Base-T (1 per power supply)
<b>Dimensions</b>	1.75 in (44.5 mm) Height 19 in (482.6 mm) Width 19.75 in (501.7) Depth	5.22 in (132.6mm) Height 19 in (482.6 mm) Width 24.75 (628.7 mm) Depth	28.00 in (711.2 mm) Height 19 (482.6 mm) Width 28.00 in (711.2 mm) Depth
<b>Weight</b>	20 lbs (9.1 kg)	50 lbs (22.7 kg)	329 lbs (149.2 kg) (maximum)
<b>Mounts</b>	Mounting hardware & cable mgt included	Mounting hardware & cable mgt included	Mounting hardware & cable mgt included
<b>Power Rating (AC)</b>	1+1 x 15A @ 100/240 VAC	1+1 x 15A @ 100/240 VAC	2+2 x 16A @ 240 VAC
<b>Maximum Power</b>	400W	1,000W@110 VAC 1,200W@220 VAC	6,000W (Typ.4,200W)
<b>Plug</b>	2 x NEMA 5-15P	2 x NEMA 5-15P	NEMA L6-20P
<b>Operating Voltage</b>	100/240 VAC	100/240 VAC	240 VAC
<b>Operating Environment</b>	+41° to +104° F	+41° to +104° F	+41° to +104° F
<b>Air Flow</b>	Side to Side	Side to Side	Side to Side (available front-back baffling)
<b>Operating Humidity</b>	20% - 85% (non-condensing)	20% - 85% (non-condensing)	20% - 85% (non-condensing)
<b>Regulatory Approvals</b>	FCC, UL, cUL, UL-GS, VCCI, CE	FCC, UL, cUL, UL-GS, VCCI, CE	FCC, UL, cUL, UL-GS, VCCI, CE

**Corporate Headquarters**  
NETSCOUT Systems, Inc.  
Westford, MA 01886-4105  
Phone: +1 978-614-4000  
www.netscout.com

**Sales Information**  
Toll Free US: 800-309-4804  
(International numbers below)

**Product Support**  
Toll Free US: 888-357-7667  
(International numbers below)

NETSCOUT offers sales, support, and services in over 32 countries. Global addresses, and international numbers are listed on the NETSCOUT website at: [www.netscout.com/company/contact-us](http://www.netscout.com/company/contact-us)