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Product Lifecycle Management System

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# Portable High-Density Network Performance Analysis System SmartBits® 600B

## Product Overview

Spirent Communications' SmartBits 600B chassis is an improved version of the SmartBits 600. The SmartBits 600B is the industry's most portable and compact, high-port-density-for-its-size network performance testing system. Compatible with all of the SmartBits 600x/6000x family of chassis, the SmartBits 600B holds up to two modules that can support up to 16 10/100 Mbps Ethernet ports, 8 Gigabit Ethernet ports, 1 10GbE port, 4 Packet over SONET (POS) ports, 4 Fibre Channel ports, or a mixture of these port types.

SmartBits 600B chassis can be daisy-chained together to achieve higher port density; enabling users to perform automated large-scale testing in Quality Control and high-volume production environments. Up to 512 chassis can be synchronously connected by using SmartBits multi-chassis extension units.

The SmartBits 600B is easily controlled by a host computer through a 10/100 Mbps Ethernet connection and uses a Windows®, Linux, or Solaris-based interface.

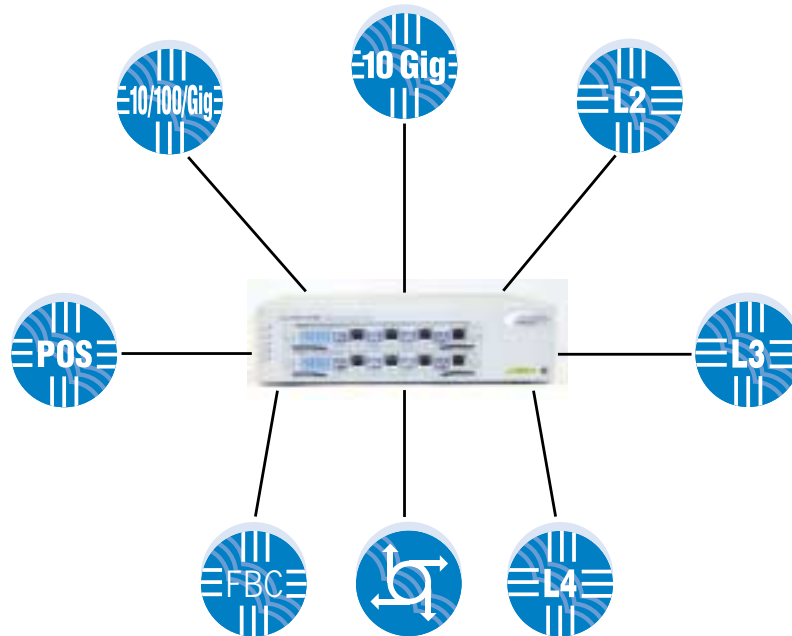
## The SmartBits 600B is Designed For:

- **Network Equipment Manufacturers:** Test your device in the lab, then carry it along with a SmartBits 600B, to your customer site to prove your device's performance.

- **Evaluation Labs:** Test and certify different devices from various manufacturers to benchmark their performance.
- **Telcos/ISPs/Enterprise Users:** Perform comparative analysis of network equipment to determine the suitability of a specific application prior to deployment.

## SmartBits 600B Features

- Small, lightweight, and portable.
- Holds up to two modules.
- Supports up to 16 10/100 Ethernet ports, 8 Gigabit Ethernet ports, 1 10GbE port, 4 Packet over SONET (POS) ports, 4 Fibre Channel ports, or a combination of these port types.
- Bundled with three PC-based software applications for comprehensive performance analysis (SmartWindow™, SmartLibrary™, and SmartApplications™).
- Supports sophisticated automated industry standard performance tests defined in RFC 1242 and RFC 2544.
- Supports 10/100 Mbps Ethernet connections to a host PC.
- Provides GPS (Global Positioning System), NTP (Network Timing Protocol), and CDMA (Code Division Multiple Access) TIA/EIA-95B, external timing reference support.
- Supports multi-user operation.
- Rack-mountable.



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SmartBits 600B test applications

## Supported Applications

- AST II™
- Block Storage Tester™
- Fabric Services Tester™
- SAN Routing Tester™
- SmartApplications
- SmartBits Automation™
- SmartCableModem Test™
- SmartFabric™
- SmartFlow™
- SmartLibrary
- SmartMulticastIP™
- SmartTCP™
- SmartVoIPQoS™
- SmartWindow
- SmartxDSL™
- TeraRouting Tester™
- TeraVPN Tester™
- Turn Up Connect™
- WebSuite™

## Supported Modules

Select up to two of the following modules, in any combination, to populate the SmartBits 600B chassis' two slots.

(Note: One module is the maximum for modules that require 2-slots.)

Module	Description
<b>ATM-3451A</b>	ATM OC-3c (STM-1c), 2-port, multi-mode, 1300nm, TeraMetrics
<b>ATM-3451As</b>	ATM OC-3c (STM-1c), 2-port, single mode, 1310nm, TeraMetrics
<b>ATM-3453A</b>	ATM OC-3c/OC-12c (STM-1c/STM-4c), 2-port, multi-mode, 1300nm, TeraMetrics
<b>ATM-3453As</b>	ATM OC-3c/OC-12c (STM-1c/STM-4c), 2-port, single mode, 1310nm, TeraMetrics
<b>FBC-3601A</b>	1G Fibre Channel, 2-port, SmartMetrics
<b>FBC-3602A</b>	1G and 2G Fibre Channel, 2-port, SmartMetrics
<b>LAN-3100A</b>	10/100Base-T Ethernet, 8-port
<b>LAN-3101B</b>	10/100Base-T Ethernet, 6-port, SmartMetrics
<b>LAN-3102A</b>	10/100Base-T Ethernet, 2-port, SmartMetrics
<b>LAN-3111A</b>	100Base-FX Ethernet, 6-port, multi-mode, 1300nm, SmartMetrics
<b>LAN-3111As</b>	100Base-FX Ethernet, 6-port, single mode, 1310nm, SmartMetrics
<b>LAN-3150A</b>	10/100Base-T Ethernet, RMII/SMII, 8-port
<b>LAN-3200A</b>	1000Base-SX Ethernet, 2-port, multi-mode, 850nm
<b>LAN-3200As</b>	1000Base-LX Ethernet, 2-port, single mode, 1310nm
<b>LAN-3201B/C</b>	1000Base-X Ethernet, GBIC, 1-port, SmartMetrics
<b>LAN-3300A</b>	10/100/1000Base-T Ethernet, Copper, 2-port, SmartMetrics

Module	Description
<b>LAN-3301A</b>	10/100/1000Base-T Ethernet, Copper, 2-port, TeraMetrics
<b>LAN-3302A</b>	10/100Base-TX Ethernet, Copper, 2-port, TeraMetrics
<b>LAN-3306A</b>	10/100Base-TX Ethernet, Copper, 4-port, TeraMetrics XD
<b>LAN-3310A</b>	1000Base-X Ethernet, GBIC, 2-port, SmartMetrics
<b>LAN-3311A</b>	1000Base-X Ethernet, GBIC, 2-port, TeraMetrics
<b>LAN-3320A</b>	10/100/1000 Mbps and Gigabit Ethernet Fiber, 2-port, SmartMetrics XD
<b>LAN-3321A</b>	10/100/1000 Mbps and Gigabit Ethernet Fiber, 2-port, TeraMetrics XD
<b>LAN-3324A</b>	10/100/1000 Mbps and Gigabit Ethernet Fiber, 4-port, SmartMetrics XD
<b>LAN-3325A</b>	10/100/1000 Mbps and Gigabit Ethernet Fiber, 4-port, TeraMetrics XD
<b>LAN-3327A</b>	10/100/1000 Mbps and Gigabit Ethernet Fiber, 1-port, TeraMetrics XD
<b>LAN-3710AE</b>	10GBase-ER Ethernet, 1-port, 2-slot, single mode, 1550nm
<b>LAN-3710AL</b>	10GBase-LR Ethernet, 1-port, 2-slot, single mode, 1310nm
<b>POS-3500B</b>	POS OC-3c/OC-12c (STM-1c/STM-4c), 1-port, multi-mode, 1300nm, SmartMetrics
<b>POS-3500Bs</b>	POS OC-3c/OC-12c (STM-1c/STM-4c), 1-port, single mode, 1310nm, SmartMetrics
<b>POS-3502A</b>	POS OC-3c (STM-1c), 1-port, multi-mode, 1300nm, SmartMetrics
<b>POS-3502As</b>	POS OC-3c (STM-1c), 1-port, single mode, 1310nm, SmartMetrics
<b>POS-3504As</b>	POS OC-48c (STM-16c), 1-port, single mode, 1310nm, SmartMetrics
<b>POS-3504AR</b>	POS OC-48c (STM-16c), 1-port, single mode, 1550nm, SmartMetrics
<b>POS-3505As</b>	POS OC-48c (STM-16c), 1-port, single mode, 1310nm, TeraMetrics
<b>POS-3505AR</b>	POS OC-48c (STM-16c), 1-port, single mode, 1550nm, TeraMetrics
<b>POS-3510A</b>	POS OC-3c/OC-12c (STM-1c/STM-4c), 2-port, multi-mode, 1300nm, SmartMetrics
<b>POS-3510As</b>	POS OC-3c/OC-12c (STM-1c/STM-4c), 2-port, single mode, 1310nm, SmartMetrics
<b>POS-3511A</b>	POS OC-3c/OC-12c (STM-1c/STM-4c), 2-port, multi-mode, 1300nm, TeraMetrics
<b>POS-3511As</b>	POS OC-3c/OC-12c (STM-1c/STM-4c), 2-port, single mode, 1310nm, TeraMetrics
<b>POS-3518As</b>	POS OC-192c (STM-64c), 1-port, 2-slot, single mode, 1310nm, SmartMetrics
<b>POS-3518AR</b>	POS OC-192c (STM-64c), 1-port, 2-slot, single mode, 1550nm, SmartMetrics

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Module	Description
<b>POS-3519As</b>	POS OC-192c (STM-64c), 1-port, 2-slot, single mode, 1310nm, TeraMetrics
<b>POS-3519Ar</b>	POS OC-192c (STM-64c), 1-port, 2-slot, single mode, 1550nm, TeraMetrics
<b>XLW-3720A</b>	10GBase Ethernet, Optical, XENPAK, 1-port, 2-slot, SmartMetrics
<b>XLW-3721A</b>	10GBase Ethernet, Optical, XENPAK, 1-port, 2-slot, TeraMetrics

### Requirements

- One SmartBits 600B chassis and up to two modules.
- One Ethernet cable and one 10/100 Ethernet card installed in the PC.
- An IBM or compatible Pentium™ PC running Windows® 2000/NT/XP, with mouse and color monitor.

### Specifications

- SmartBits chassis with two module slots. Controllable over the Internet or from a PC equipped with SmartWindow.
- Input Power: 100-240 VAC. Nominal 115 or 230 VAC, 50-60 Hz.
- Dimensions: 12"W x 3.5"H x 12.5"D (30.8W x 9H x 32.1D cm).
- Weight: 5.25 lbs. (2.38 kg) fully loaded. Shipping Weight approx. 8.5 lbs. (3.85 kg).
- Operating environment: 59° to 104° F (15° to 40° C); 20 to 80% relative humidity. Must have space for unimpeded airflow into the chassis fans.

### Ordering Information

#### SMB-600B

SmartBits 600B (includes SmartWindow, SmartLibrary, and SmartApplications)

#### ACC-6000A

19" Rackmount Option

#### ACC-6001A

24" Rackmount Option

Spirent Communications offers a variety of ServiceEdge™ maintenance and support packages. For more information, visit the Spirent website at [www.spirentcom.com](http://www.spirentcom.com) or contact your Spirent sales representative.

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#### Communications

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