



# Highest Port Density Performance Analysis System SmartBits® 6000C

## Product Overview

Spirent Communications' SmartBits 6000C chassis is the industry's highest-port-density network performance analysis test system. Each chassis can support up to 12 slots of a wide variety of test modules to suit port density and technology needs.

Multiple SmartBits 6000C chassis can be interconnected to achieve ultra high-port density, enabling users to perform automated large scale testing in Quality Control and high-volume production environments. Up to 8 chassis can be synchronously connected together using a simple cable; this can be extended up to 512 chassis using SmartBits multi-chassis extension units.

The SmartBits 6000C 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 6000C Is Designed For:

- **Network Equipment Manufacturers:** Perform ultra highport density for engineering, production, and QA testing.
- **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 suitability to a specific application prior to deployment.

## SmartBits 6000C Features

- Holds up to twelve modules.
- Supports up to 96 10/100 Ethernet ports, 48 Gigabit Ethernet ports, 6 10GbE ports, 24 POS ports, 24 Fibre Channel ports, or a combination of these port types.
- Bundled with three PC-based software applications for comprehensive stress testing (SmartWindow™, SmartLibrary™, and SmartApplications™).

- Supports sophisticated automated industry standard performance tests defined in RFC 1242 and RFC 2544.
- Supports a 10/100 Mbps Ethernet or Telnet connection to the 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.
- An optional LockBar™ accessory is available to secure modules within the SmartBits 6000C chassis.
- Rack-mountable.

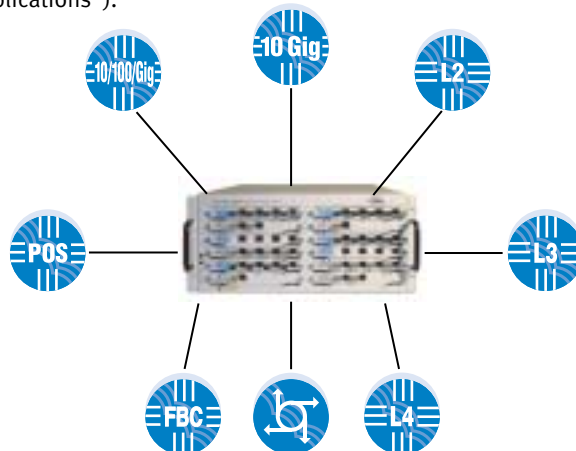
## Supported Applications

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

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SmartBits 6000C test applications



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## Supported Modules

Select up to twelve of the following modules, in any combination, to fill the SmartBits 6000C chassis twelve 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
<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

Module	Description
<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
<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 6000C chassis and one or more 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.

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## Specifications

- SmartBits chassis with 12-module capacity.
- 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: 19"W x 8.5"H x 19.75"D (48.3W x 21.6H x 50.165D cm).
- Weight: 54 lbs. (24.4 kg) fully loaded. Shipping Weight approx. 58 lbs. (26.3 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, and out of the chassis vents. Must also have blank panels installed for all empty slots.
- Front panel LEDs: Power, Fan, Link, Status, and Over Temperature.
- Back panel LEDs: Activity/Collision, Link/Error, Full/Half Duplex, and 10/100 Ethernet.
- Connectors: RS-232 for workstation connection; RJ-45 10 Base-T connector for Ethernet connection; RJ-45 Expansion In/Out connectors for multiple chassis connection; connectors to attach to an optional GPS, or CDMA receiver.

## Ordering Information

### SMB-6000C

SmartBits 6000C (includes SmartWindow, SmartLibrary, and SmartApplications)

### ACC-6000C

LockBar for SmartBits 6000C chassis

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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