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## Test & Measurement

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## Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

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Product Lifecycle Management System

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# 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.

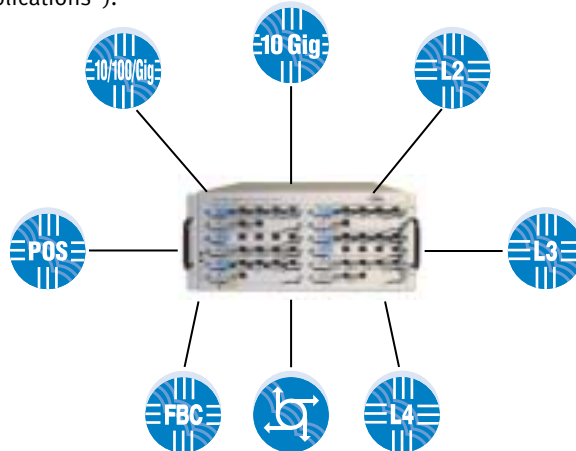
## Supported Applications

- 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.



SmartBits 6000C

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