SmartBits 600

Portable High-Density Network Performance Analysis
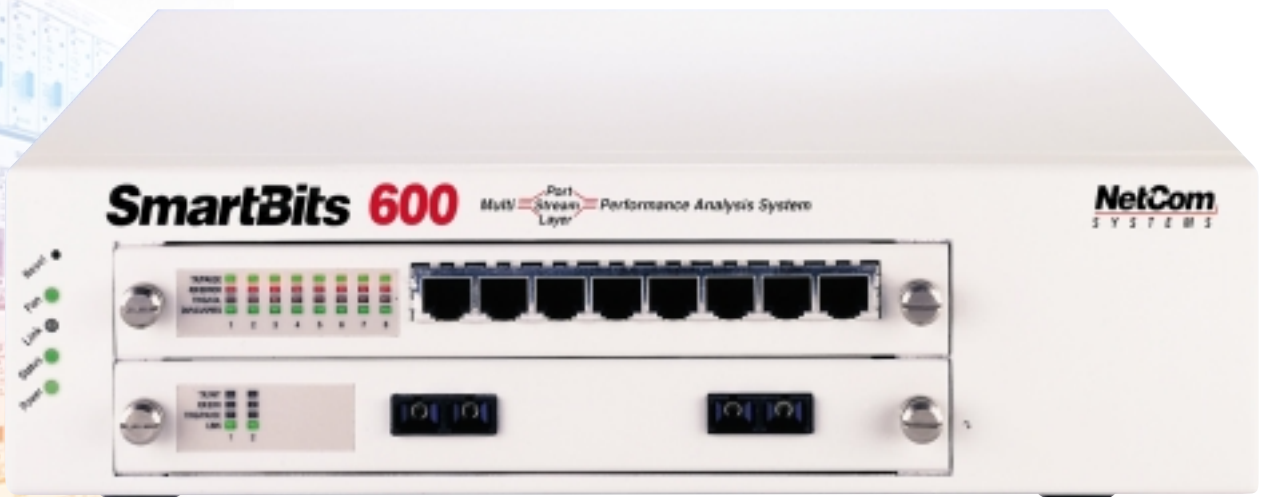
PRODUCT OVERVIEW

Netcom Systems SmartBits™ 600 chassis is the industry's most portable and compact high-port-density-for-its-size network performance analysis test system. Compatible with the industry standard SmartBits 6000 system, the SmartBits 600 can accept up to two MiniModules that can support up to 4 Gigabit Ethernet ports, 16 10/100 Mbps Ethernet ports, 2 POS (Packet over SONET) ports, 2 SmartMetrics Gigabit ports, or a mixture of these port types.

SmartBits 600's 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.

The SmartBits 600 is easily controlled by a PC through a 10/100 Mbps Ethernet connection and uses a Windows®-based interface. The SmartBits 600 system includes three PC-based software applications: SmartWindow, SmartLib, and SmartApplications.

SMARTBITS 600 IS DESIGNED FOR …

- **Network Equipment Manufacturers:** Test your device, then carry it with a SmartBits 600 to your customer to prove its performance.

- **Evaluation Labs:** Test 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.

SMB-600 CAPABILITIES

- Small, light weight and portable.

- Holds up to two MiniModules.

- Supports up to 16 10/100 Ethernet ports, four Gigabit Ethernet ports, 2 POS ports, 2 SmartMetrics Gigabit ports, or a combination of these port types.

- Bundled with three PC-based software applications for comprehensive performance analysis (SmartWindow, SmartApplications, and SmartLib).

- Supports sophisticated automated industry standard performance tests defined in RFC 1242 and RFC 2544.

- Supports 10/100 Mbps Ethernet connection to host PC.

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NETCOM SYSTEMS

Portable High-Density Network Performance Analysis

SUPPORTED APPLICATIONS

SmartApplications

SmartApplications is a Windows®-based application that works with SmartBits systems. This application automates RFC 1242 and RFC 2544 testing for determining Throughput, Packet Loss, Latency, Back-to-Back Performance testing *under full load*, and production Go/No-Go tests for "minimum acceptable" performance levels.

SmartLib Programming Library

SmartLib provides an API programming library interface for rapid test development. Software developers may also use it to develop programs in Visual Basic, C, or C++ in a Windows 95 environment, and C, C++ or TCL in a UNIX® environment.

SmartWindow

SmartWindow is a Windows-based virtual front panel used to control all functions of MiniModules. It provides a convenient method to set up any combination of ports, transmit heavy traffic loads, monitor the status of, or capture and view data gathered by active MiniModules.

Smart Software	Measurement Types
SmartApplications	Throughput, packet loss, latency, back-to-back performance. (Canned, fast tests).
SmartLib	API programming library includes all test variables for custom test designs.
SmartWindow	Throughput, latency, latency variation, latency histograms, packet loss, back-to-back performance, point-to-point, point to multi-point, multi-point to multi-point, round trip transit time, illegal packets, broadcast traffic, expired time-to-live filtering, address table learning, flow table learning, congestion testing, comparative path testing.

REQUIREMENTS

- One SMB-600 chassis and one or more MiniModules.
- One Ethernet cable and 10/100 Ethernet installed in the PC; an RS-232 straight-through (not null modem) cable for initial configuration.
- IBM compatible PC with a minimum of 32MB RAM (Windows 95/98) or 64MB RAM (Windows NT), with a CD-ROM drive, and a minimum 40MB space on the hard drive (recommend 3GB hard drive).
- Microsoft Windows 95/98 or Windows NT.

SPECIFICATIONS

- Input Power: 100-240VAC. Nominal 115 or 230VAC, 50-60 Hz.
- SmartBits chassis with two-MiniModule capacity. Controllable over the Internet or from a PC with Windows 95/98 or Windows NT via SmartWindow.
- Dimensions: 12"W x 3.5"H x 12.5"D. (30.5W x 8.9H x 31.8D cm).
- Weight: 5.25 lbs. (2.36 kg) fully loaded. Shipping Weight approx. 8.5 lbs. (3.8 kg).

- Operating environment: 15° - 40° C. (59°-104° F.) 20-80% relative humidity. Must have space for unimpeded airflow into the chassis fans.

ORDERING INFORMATION

- **SMB-600** SmartBits 600 (includes SmartWindow, SmartApplications and SmartLib)
- Select up to two MiniModules in any combination to fill the two chassis slots:

  LAN-3200A 1000Base-SX Module (2 ports per MiniModule)

  LAN-3100A 10/100Base-T Module (8 ports per MiniModule)

  LAN-3201A SmartMetrics 1000 Base-SX Module (1 port per MiniModule)

  POS-3500B OC-3 and OC-12 POS Module (2 ports per MiniModule)

  POS-3502A OC-3 POS Module (2 ports per MiniModule)

- **SUS-SMB** 12-month Software Update Support Service

If it wasn't tested with SmartBits™...it wasn't tested

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