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Data Sheet

August 3, 2026

SPIRENT

Spirent Smart SMB6000B mainframe

Spirent Smart SMB6000B Mainframe Overview The SMB-6000B provides an ultra-high port-density Spirent SmartBits mainframe for network performance analysis. Each chassis holds up to 12 modules and can support up to 24 Gigabit Ethernet ports, 96× 10/100 Mbps Ethernet ports, 12 POS ports, 12 SmartMetrics Gigabit Ethernet ports, or a mixture. It is the high-density companion to the portable SMB-600 and uses the same 3xxx-series module family.

Applications High-density switch and router throughput/latency/packet-loss testing; multi-port RFC 2544 and QoS validation; multi-user lab environments; large-scale automated production and QC test beds.



MODEL

Spirent SMB6000B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SMB6000B

LISTING

<https://aumictechlabs.com/products/smb6000b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Spirent SmartBits SMB6000B mainframe is a high-density network performance analysis system engineered for rigorous testing and validation across enterprise environments, laboratories, and manufacturing settings. This modular chassis delivers port density and supports up to 12 modules, enabling extensive network traffic emulation and analysis. The platform scales to 512 synchronized units for large-scale deployments and integrates comprehensive software tools for RFC 1242 and RFC 2544 compliance testing. Technical Specifications Chassis and Module Architecture Module capacity: 12 modules maximum per chassis Port density: Industry-

highest configuration supported Port Options (per chassis, module-dependent) 10/100 Mbps Ethernet: Up to 96 ports Gigabit Ethernet (GbE): Up to 24 ports SmartMetrics GbE: Up to 24 ports 10 Gigabit Ethernet (10GbE): Up to 6 ports Packet over SONET (POS): Up to 24 ports, OC-3c to OC-192c Fibre Channel: Up to 24 ports Mixed-port configurations supported Scalability and Interconnection Daisy-chaining support for ultra-high port density Up to 512 synchronized chassis for distributed testing operations Control and Operation Host connection: Windows PC via 10/100 Mbps Ethernet Interface: Windows-based with multi-user support Remote access via Internet or SmartWindow-equipped PC Timing and Synchronization GPS support NTP support Physical Characteristics Depth: 41.9 cm (16.5 inches) Weight: 48 lbs (21.8 kg)Key Features RFC 1242 and RFC 2544 automated performance testing Bundled applications: SmartWindow™, SmartLib™, SmartApplications™ SmartAccess™ security suite included Support for AST II™, FaST Connect™, SmartFabric™, SmartFlow™, SmartMulticastIP™, SmartTCP™, SmartVoIPQoS™, SmartxDSL™, TeraRouting Tester™, TeraVPN™, and WebSuite™Typical Applications Network infrastructure performance validation Service reliability testing Stress testing across multiple protocol stacks Large-scale distributed network emulationCompatibility & Integration The SMB6000B accepts control from Windows-based host systems and integrates with SmartWindow software for local and remote operation across multiple concurrent users.

Features & description

From manufacturer datasheet

Features

- 12 module slots; up to 96 ports per chassis
- Compatible with SMB-600 family 3xxx Gigabit Ethernet and POS modules
- PC control over 10/100 Ethernet; RS-232 for setup
- Expansion RJ-45 In/Out for multi-chassis synchronization
- Optional GPS receiver interface for synchronized multi-chassis timing
- Multi-user reservation of modules (firmware-dependent)
- Core applications: SmartWindow, SmartLib, SmartApplications; also SmartFlow, AST II, ScriptCenter, and others per Spirent matrix

SMB6000B Characteristics / Specifications

PARAMETER	VALUE
Model	SMB-6000B
Manufacturer	Spirent Communications
Instrument Type	SmartBits high-density mainframe chassis
Alias	SMB6000B; SmartBits 6000B Chassis
Module Slots	12
Maximum Ports	96
Port Capacity Examples	up to 24 Gigabit Ethernet; up to 96× 10/100 Ethernet; up to 12 POS; up to 12 SmartMetrics Gigabit; or mixed
Input Power	100–240 VAC, nominal 115 or 230 VAC, 50–60 Hz
Dimensions	19" W × 8.5" H × 16.5" D (48 × 22 × 42 cm)
Weight	45 lbs (20.4 kg) fully loaded; shipping approx. 48 lbs (21.8 kg)
Operating Temperature	59–104 °F (15–40 °C)
Operating Humidity	20 to 80% RH, non-condensing
Layout	Unimpeded airflow into side fans; local multi-chassis connections within 1 m Interfaces / Connectors RS-232 workstation connection RJ-45 10 Base-T Ethernet host control RJ-45 Expansion In/Out for multi-chassis Optional GPS receiver connectors
Front	Power, Fan, Link, Status
Back	Activity/Collision, Link/Error, Full/Half Duplex, 10/100 Ethernet Cards Supported All 3xxx-series modules (Gigabit Ethernet and POS) for SMB-600/6000B Standard Operating Conditions Operate 15–40 °C with clear side airflow. Multi-user and multi-chassis features require compatible chassis firmware (e.g. multi-user from firmware 6.50+).
Core applications	SmartWindow, SmartLib, SmartApplications; also SmartFlow, AST II, ScriptCenter, and others per Spirent matrix
Humidity	20 to 80% RH, non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

performance analysis. Each chassis holds up to 12 modules and can support up to 24 Gigabit Ethernet ports, 96× 10/100 Mbps Ethernet ports, 12 POS ports, 12 SmartMetrics Gigabit Ethernet ports, oramixture. It is the high-density companion to the portable SMB-600 and uses the same 3xxx-series module family.

Applications

High-density switch and router throughput/latency/packet-loss testing; multi-port RFC 2544 and QoS validation; multi-user lab environments; large-scale automated production and QC test beds.

Key Features

- 12 module slots; up to 96 ports per chassis
- Compatible with SMB-600 family 3xxx Gigabit Ethernet and POS modules
- PC control over 10/100 Ethernet; RS-232 for setup
- Expansion RJ-45 In/Out for multi-chassis synchronization
- Optional GPS receiver interface for synchronized multi-chassis timing
- Multi-user reservation of modules (firmware-dependent)
- Core applications: SmartWindow, SmartLib, SmartApplications; also SmartFlow, AST II, ScriptCenter, and others per Spirent matrix

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	SMB-6000B
Manufacturer	Spirent Communications
Instrument Type	SmartBits high-density mainframe chassis
Alias	SMB6000B; SmartBits 6000B

Chassis

Specifications

PARAMETER	VALUE
Module Slots	12
Maximum Ports	96
Port Capacity Examples	up to 24 Gigabit Ethernet; up to 96× 10/100 Ethernet; up to 12 POS; up to 12 SmartMetrics Gigabit; or mixed
Input Power	100-240 VAC, nominal 115 or 230 VAC, 50-60 Hz
Dimensions	19" W × 8.5" H × 16.5" D (48 × 22 × 42 cm)
Weight	45 lbs (20.4 kg) fully loaded; shipping approx. 48 lbs (21.8 kg)
Operating Temperature	59-104 °F (15-40 °C)
Operating Humidity	20 to 80% RH, non-condensing
Layout	Unimpeded airflow into side fans; local multi-chassis connections within 1 m

Interfaces / Connectors

RS-232 workstation connection

RJ-45 10 Base-T Ethernet host control

RJ-45 Expansion In/Out for multi-chassis

Optional GPS receiver connectors

Front / Back Panel Indicators

Front: Power, Fan, Link, Status

Back: Activity/Collision, Link/Error, Full/Half Duplex, 10/100 Ethernet

Cards Supported

All 3xxx-series modules (Gigabit Ethernet and POS) for SMB-600/6000B

Standard Operating Conditions

Operate 15-40 °C with clear side airflow. Multi-user and multi-chassis features require compatible chassis firmware (e.g. multi-user from firmware 6.50+).

Operational Notes

SMB-6000B is the 12-slot rack mainframe; SMB-600 is the 2-slot portable unit using the same module series. Confirm module tray compatibility before installing LAN/POS cards.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.