

SPIRENT COMMUNICATIONS

AX/4000

The Spirent (formerly Adtech) AX/4000 is a modular, high-performance broadband test system designed for multi-port traffic generation, analysis, and protocol emulation. Widely recognized as an industry standard for testing ATM, Frame Relay, Ethernet, and Packet over SONET (POS) networks, the platform utilizes a distributed architecture with dedicated processors per port to ensure line-rate performance. It provides high-precision measurements for quality of service (QoS) metrics, including latency, jitter, and packet loss, across complex routing and switching infrastructures.

SPECIFICATIONS

General

Interfaces	Ethernet (RJ-45 for management PC connection)
Display	None (PC controlled)

Physical

Power Supply	100 to 240 VAC, 50/60 Hz
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System Architecture & Chassis

Form Factor	Modular chassis
System Architecture	Distributed processing (dedicated processor and FPGA per port)

Test Interfaces & Port Modules

Supported Network Technologies	ATM, Frame Relay, Packet over SONET (POS), Ethernet
Maximum Line Rate	Up to 10 Gbps (OC-192 / 10GbE, module dependent)

Traffic Generation Capabilities

Error Injection	CRC, Header, Payload errors
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Traffic Analysis & Capture

QoS Measurements	Latency, Jitter (Delay Variation), Packet Loss, Throughput
Real-Time Statistics	Per-port and per-stream statistics with hardware counting
Packet Capture	Hardware-based capture buffers per port
Testing	Bit Error Rate Testing (BERT)

Protocol Emulation & Routing

Supported Network Protocols	IPv4, IPv6, TCP, UDP
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Software & Management

Graphical User Interface (GUI)	Windows-based AX/4000 Control Software
Standardized Test Suites Supported	RFC 2544
Automation and Scripting	Tcl API support

TECHNOLOGY

Broadband Network Testing / Traffic Analysis

APPLICATIONS

Network performance testing, ATM/POS/Ethernet protocol analysis, QoS verification, and router/switch validation

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.