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Data Sheet

August 13, 2026

EXFO

Exfo IQS-8120NG SONET/SDH Analyzer

The EXFO IQS-8120NG SONET/SDH Analyzer provides comprehensive testing for optical transport networks. It supports multiple signal rates and mappings, offering advanced diagnostics, BER testing, and service validation for SONET and SDH infrastructures.



MODEL

Exfo IQS-8120NG

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

IQS-8120NG

LISTING

<https://aumictechlabs.com/products/iqs-8120ng-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO IQS-8120NG SONET/SDH Analyzer is a modular test instrument for optical transport network qualification. It delivers end-to-end testing of SONET, SDH, and OTN infrastructures up to 2.7 Gbit/s, with native support for services including Ethernet-over-SONET/SDH (EoS), Generic Framing Procedure (GFP), Virtual Concatenation (VCAT), and Link Capacity Adjustment Scheme (LCAS). As part of EXFO's IQS-600 Integrated Qualification System, the analyzer scales across diverse testing requirements while maintaining field-grade performance and integration with complementary modules.

Technical Specifications

Data Rate Coverage SONET/SDH/OTN: up to 2.7 Gbit/s

Electrical rates: 64 kbit/s (DSn/PDH) to 155 Mbit/s (SONET/SDH)

Gigabit Ethernet (SFP) and 10/100/1000M Ethernet (RJ-45) interfaces

Optical Interfaces Wavelengths: 1310 nm, 1550 nm (STM-1, STM-4, STM-16)

STM-1e electrical interface support

Key Features

SmartMode™ Automatic signal structure discovery with real-time path monitoring (high-order, low-order, VCAT members) enabling rapid fault isolation

Service Disruption Time (SDT) Measurements

Quantifies service

outage duration during network channel switching with user-selectable alarm and error triggersVCAT/LCAS ControlSimultaneous manipulation and monitoring of virtual concatenation members; LCAS emulation in automatic and manual modesOverhead Monitoring & GenerationSection, line, and path overhead manipulation across all protocol layersBit Error Rate TestingFull-range BER analysis with real-time alarm and error generationQoS TestingMultiservice QoS validation for Ethernet-over-SONET/SDH deploymentsTypical Applications SONET/SDH network commissioning and maintenance Ethernet service transport validation over legacy optical infrastructure OTN signal integrity verification Service activation and troubleshooting in carrier-grade networksCompatibility & Integration The IQS-8120NG integrates with EXFO's IQS-600 platform and interconnects with external test modules such as the IQS-8510B Packet Blazer via dual Ethernet ports, enabling multi-layer service validation.

Features & description

From manufacturer datasheet

Features

- Single-slot module up to 155 Mbit/s electrical
- DS_n, PDH, SONET, and SDH electrical rates
- SmartMode real-time signal structure discovery
- Dual DS1 and dual DS3 Rx capability
- Performance monitoring G.821/G.826/G.828/G.829/M.2100/M.2101
- Through mode, APS/service disruption, round-trip delay
- Compatible with FTB-200 and FTB-500 platforms

Applications

- TDM field service turn-up and troubleshooting
- DS1/DS3 and E1-E4 electrical BER testing
- STS-1e/STS-3e and STM-0e/STM-1e electrical SONET/SDH tests
- Ethernet-over-TDM workflows with Packet Blazer modules
- Dual DS1/DS3 receiver monitoring

IQS8120NG Characteristics / Specifications

PARAMETER	VALUE
Model	FTB-8105
Manufacturer	EXFO
Instrument Type	DSn/PDH and SONET/SDH Electrical Test Module
Alias	FTB-8105 Transport Blazer
Platform compatibility	FTB-200; FTB-500
Slot form	single slot
Max electrical rate	155 Mbit/s
DSn interfaces	DS1; DS3; Dual DS1 Rx; Dual DS3 Rx
PDH interfaces	E1; E2; E3; E4
SONET electrical	STS-1; STS-3
SDH electrical	STM-0e; STM-1e
Tx bit rate DS	44.736 Mbit/s ± 4.6 ppm
Tx bit rate E	139.264 Mbit/s ± 4.6 ppm
Tx bit rate STS 1e	51.84 Mbit/s ± 4.6 ppm
Tx bit rate STS 3e STM 1e	155.52 Mbit/s ± 4.6 ppm
Rx frequency tolerance DS	± 140 ppm
Rx frequency tolerance other rates	± 100 ppm class
High order mappings	STS-1/3c; AU-3/AU-4
Low order mappings	VT1.5/2/6; VC-11/12/2/3
SizeHxWxD	96 mm x 25 mm x 288 mm
Weight without transceiver	0.5 kg
Operating temperature	0 °C to 40 °C class
Storage temperature	-40 °C to 60 °C class Notes Specs from EXFO FTB-8105 Transport Blazer discontinued datasheets. Confirm platform (FTB-200 vs FTB-500), licensed mappings, and electrical connector adapters on the module.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	−40 °C to 60 °C class
Operating temperature	0 °C to 40 °C class
Operating Temperature	0 °C to 40 °C class

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 monitoring G.821/G.826/G.828/G.829/M.2100/M.2101

- Through mode, APS/service disruption, round-trip delay

- Compatible with FTB-200 and FTB-500 platforms

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	FTB-8105
Manufacturer	EXFO
Instrument Type	DSn/PDH and SONET/SDH Electrical Test Module
Alias	FTB-8105 Transport Blazer
Platform compatibility	FTB-200; FTB-500
Slot form	single slot
Max electrical rate	155 Mbit/s
DSn interfaces	DS1; DS3; Dual DS1 Rx; Dual DS3 Rx
PDH interfaces	E1; E2; E3; E4
SONET electrical	STS-1; STS-3
SDH electrical	STM-0e; STM-1e
Tx bit rate DS1	1.544 Mbit/s ±4.6 ppm
Tx bit rate E1	2.048 Mbit/s ±4.6 ppm
Tx bit rate E2	8.448 Mbit/s ±4.6 ppm
Tx bit rate E3	34.368 Mbit/s ±4.6 ppm
Tx bit rate DS3	44.736 Mbit/s ±4.6 ppm
Tx bit rate STS 1e	51.84 Mbit/s ±4.6 ppm
Tx bit rate E4	139.264 Mbit/s ±4.6 ppm
Tx bit rate STS 3e STM 1e	155.52 Mbit/s ±4.6 ppm
Rx frequency tolerance DS1	±140 ppm
Rx frequency tolerance other rates	±100 ppm class
High order mappings	STS-1/3c; AU-3/AU-4
Low order mappings	VT1.5/2/6; VC-11/12/2/3
SizeHxWxD	96 mm x 25 mm x 288 mm

PARAMETER	VALUE
Weight without transceiver	0.5 kg
Operating temperature	0 °C to 40 °C class
Storage temperature	-40 °C to 60 °C class

Notes
Specs from EXFO FTB-8105 Transport Blazer discontinued datasheets. Confirm platform (FTB-200 vs FTB-500), licensed mappings, and electrical connector adapters on the module.

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

Aumictech

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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.