

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

EXFO

Exfo IQS-8105-DSN Transport Blazer

The EXFO IQS-8105-DSN Transport Blazer is a modular test instrument for validating legacy and optical transport networks. Designed as a plug-in module for the EXFO IQS-600 Integrated Qualification System, it delivers comprehensive electrical testing across DS_n, PDH, SONET, and SDH rates from 64 kbit/s to 155 Mbit/s. The instrument excels at BER testing, advanced characterization, and troubleshooting of complex transport hierarchies. Key Features SmartMode enables real-time signal structure discovery with full visibility of high-order (STS/AU) and low-order (VT/TU) mixed mappings, including automatic detection of STS-n/STM-n electrical rates, virtual concatenation members, and complex mapping hierarchies. The instrument inserts and measures frame-level errors (FAS, CV, CRC-4, CRC-6, BPV) and bit-level errors on DS1 and E1 interfaces. Alarm insertion and detection covers LOS, RAI, AIS, OO



MODEL

Exfo IQS-8105-DSN

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

IQS-8105-DSN

LISTING

<https://aumictechlabs.com/products/iqs-8105-dsn-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The EXFO IQS-8105-DSN Transport Blazer is a modular test instrument for validating legacy and optical transport networks. Designed as a plug-in module for the EXFO IQS-600 Integrated Qualification System, it delivers comprehensive electrical testing across DS_n, PDH, SONET, and SDH rates from 64 kbit/s to 155 Mbit/s. The instrument excels at BER testing, advanced

characterization, and troubleshooting of complex transport hierarchies.

Technical Specifications

The module supports electrical rates spanning DS1 (1.5M), E1 (2M), E2 (8M), E3 (34M), DS3 (45M), E4 (140M), STM-0e, and STM-1e interfaces. DS1 framing options include Unframed, SF (Sub-rate Framing), and ESF (Extended Superframe) configurations.

Key Features

SmartMode enables real-time signal structure discovery with full visibility of high-order (STS/AU) and low-order (VT/TU) mixed mappings, including automatic detection of STS-n/STM-n electrical rates, virtual concatenation members, and complex mapping hierarchies. The instrument inserts and measures frame-level errors (FAS, CV, CRC-4, CRC-6, BPV) and bit-level errors on DS1 and E1 interfaces. Alarm insertion and detection covers LOS, RAI, AIS, OOF, LOC, and pattern loss conditions. Automated test scripting uses SCPI commands or a built-in macro recorder for repeatability and integration into production workflows. Detailed test logging captures error/alarm events and supports SLA conformance validation with post-processing capabilities.

Typical Applications

Ideal for manufacturing test, field validation, and laboratory characterization of legacy PDH and modern SONET/SDH equipment. Enables root-cause analysis of signal degradation through granular error and alarm insertion/measurement.

Compatibility & Integration

The IQS-8105-DSN integrates exclusively into the IQS-600 rack-mount platform. Remote management is supported via Visual Guardian Lite™ software, web browser, VNC client, or Remote Desktop Protocol, making it suitable for both attended and unattended test environments.

Features & description

From manufacturer datasheet

Features

• Single-slot module for IQS Integrated Qualification System • DS_n: DS1, DS3, Dual DS1 Rx, Dual DS3 Rx • PDH: E1, E2, E3, E4 • SONET: STS-1e, STS-3e; SDH: STM-0e, STM-1e • Bulk and mixed payload generation and analysis • Overhead analysis and automated test scripting • Dual Rx DS_n capability • Compatible with IQS-600 class platforms (FTB-8105 for FTB platforms)

Applications

• DS_n/PDH electrical BERT and analysis in lab and manufacturing • SONET/SDH electrical rates up to STS-3e/STM-1e (155.52 Mbit/s) • Dual DS1/DS3 receive monitoring • Mixed and bulk payload mapping validation from 64 kbit/s to 155 Mbit/s • TDM service turn-up with IQS-600 or compatible platforms

IQS8105DSN Characteristics / Specifications

PARAMETER	VALUE
Model	IQS-8105-DSN
Manufacturer	EXFO
Instrument Type	DSn/PDH/SONET/SDH Electrical Test Module
Alias	IQS-8105 Transport Blazer; FTB-8105 equivalent
Slot usage	single slot
Max electrical rate	155.52 Mbit/s
DS1 transmit bit rate	1.544 Mbit/s ± 4.6 ppm
E1 transmit bit rate	2.048 Mbit/s ± 4.6 ppm
E2 transmit bit rate	8.448 Mbit/s ± 4.6 ppm
E3 transmit bit rate	34.368 Mbit/s ± 4.6 ppm
DS3 transmit bit rate	44.736 Mbit/s ± 4.6 ppm
STS1e transmit bit rate	51.84 Mbit/s ± 4.6 ppm
E4 transmit bit rate	139.264 Mbit/s ± 4.6 ppm
STS3e STM1e transmit bit rate	155.52 Mbit/s ± 4.6 ppm
DS1 receive bit rate tolerance	± 140 ppm
Other receive bit rate tolerance class	± 100 ppm
Electrical interfaces SONET DSn	DS1; DS3; STS1e; STS3e
Electrical interfaces SDH PDH	1.5M; 2M; 8M; 34M; 45M; 140M; STM0e; STM1e
DS1 framing	Unframed; SF; ESF; SLC-96 class
DS3 framing	Unframed; M13; C-bit parity
Clocking	Internal; loop-timed; external BITS/MTS/SETS; inter-module
Mappings VT1.	Bulk; DS1
Mappings VT	Bulk; E1
Mappings STS	Bulk; DS3
Mappings STS3c	Bulk; E4 class

PARAMETER	VALUE
Connector BNC class	75 Ω unbalanced for higher rates
Connector Bantam RJ48C class	DS1/E1
Dual Rx	DS1 and DS3 supported
Payload span	64 kbit/s to 155 Mbit/s
Platform	IQS-600 Integrated Qualification System
Field equivalent	FTB-8105 Transport Blazer
Operating environment class	lab/manufacturing IQS chassis ambient
Remote management	multi-user remote with automated scripting Notes Specs from EXFO IQS-8105 / FTB-8105 Transport Blazer DSn/PDH/SONET/SDH electrical module datasheets. Confirm DSN option set, connector panel, and firmware feature pack on the installed module.
DSn	DS1, DS3, Dual DS1 Rx, Dual DS3 Rx
PDH	E1, E2, E3, E4
SONET	STS-1e, STS-3e; SDH: STM-0e, STM-1e

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.

Specifications	
Specifications	
PARAMETER	VALUE
Model	IQS-8105-DSN
Manufacturer	EXFO
Instrument Type	DSn/PDH/SONET/SDH Electrical Test Module
Alias	IQS-8105 Transport Blazer; FTB-8105 equivalent
Slot usage	single slot
Max electrical rate	155.52 Mbit/s
DS1 transmit bit rate	1.544 Mbit/s ±4.6 ppm
E1 transmit bit rate	2.048 Mbit/s ±4.6 ppm
E2 transmit bit rate	8.448 Mbit/s ±4.6 ppm
E3 transmit bit rate	34.368 Mbit/s ±4.6 ppm
DS3 transmit bit rate	44.736 Mbit/s ±4.6 ppm
STS1e transmit bit rate	51.84 Mbit/s ±4.6 ppm
E4 transmit bit rate	139.264 Mbit/s ±4.6 ppm
STS3e STM1e transmit bit rate	155.52 Mbit/s ±4.6 ppm
DS1 receive bit rate tolerance	±140 ppm
Other receive bit rate tolerance class	±100 ppm
Electrical interfaces SONET DSn	DS1; DS3; STS1e; STS3e
Electrical interfaces SDH PDH	1.5M; 2M; 8M; 34M; 45M; 140M; STM0e; STM1e
DS1 framing	Unframed; SF; ESF; SLC-96 class
DS3 framing	Unframed; M13; C-bit parity
Clocking	Internal; loop-timed; external BITS/MTS/SETS; inter-module
Mappings VT1.5	Bulk; DS1
Mappings VT2	Bulk; E1
Mappings STS1	Bulk; DS3
Mappings STS3c	Bulk; E4 class
Connector BNC class	75 Ω unbalanced for higher rates

PARAMETER	VALUE
Connector Bantam RJ48C class	DS1/E1
Dual Rx	DS1 and DS3 supported
Payload span	64 kbit/s to 155 Mbit/s
Platform	IQS-600 Integrated Qualification System
Field equivalent	FTB-8105 Transport Blazer
Operating environment class	lab/manufacturing IQS chassis ambient
Remote management	multi-user remote with automated scripting

Notes
Specs from EXFO IQS-8105 / FTB-8105 Transport Blazer DSn/PDH/SONET/SDH electrical module datasheets. Confirm DSN option set, connector panel, and firmware feature pack on the installed 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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

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