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Data Sheet

August 13, 2026

EXFO

EXFO EPX 610 STM-1 CMI Transmitter

The EXFO/Gnubi EPX610 is an STM-1 CMI electrical transmitter module for EPX chassis platforms. It generates STM-1 (155.52 MHz) signals with CMI line coding on a 75 Ω BNC interface, supporting selectable VC payload mappings, SDH overhead insertion, alarm/error injection, and multi-port concurrent testing in production and metro verification labs.

Instrument Type: STM-1 CMI Transmitter Module Alias: EPX-610; EPX610 STM-1 CMI

Transmitter Timing references: EPX100 Clock Module BITS; external; internal As received timing; recovered clock from adjacent STM-1 CMI receiver



MODEL

Exfo EPX 610

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

EPX 610

LISTING

<https://aumictechlabs.com/products/epx-610-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The EXFO EPX 610 STM-1 CMI Transmitter is a signal source module engineered for STM-1 telecommunications interface testing. This specialized transmitter generates stable, accurate signals used to verify performance and ensure compliance of network equipment with industry standards. The module integrates within EXFO test platforms to deliver reliable signal generation for STM-1 CMI (Code-Mark-Inversion) applications. Technical Specifications The EPX 610 operates as an STM-1 CMI transmitter module designed specifically for telecommunications signal generation and verification workflows. It has stable output signals optimized for testing and performance validation of STM-1 network equipment. Key Features STM-1 CMI interface for direct

signal generation Stable, accurate signal output for telecommunications testing Optimized for performance verification and standards compliance Module-based architecture for integration into EXFO test platforms Typical Applications Signal generation for STM-1 telecommunications equipment testing Network interface performance verification Compliance validation of STM-1 network devices Signal sourcing for telecommunications test and measurement workflows Compatibility & Integration The EPX 610 works with use with EXFO test platforms. This is a discontinued product with support ending June 30, 2009. Compatibility with current EXFO platforms requires specific verification.

Features & description

From manufacturer datasheet

Features

- Transmit at 155.52 MHz STM-1
- CMI encoding on BNC 75 Ω
- Selectable VC-4 / VC-3 bulk-fill mappings
- Full SDH payload generation and overhead insertion
- Alarm and error insertion with programmable rates
- Pointer and K1/K2 manipulation
- Multi-module simultaneous testing in one chassis
- Web browser multi-user remote access

Applications

- STM-1 CMI electrical transmit BERT
- Production and validation of SDH metro equipment
- Signal regeneration and retransmission
- Add/drop mux/demux testing
- Optical-to-electrical workflows with STM-4/1 receivers

EPX610 Characteristics / Specifications

PARAMETER	VALUE
Model	EPX610
Manufacturer	EXFO / Gnubi
Instrument Type	STM-1 CMI Transmitter Module
Alias	EPX-610; EPX610 STM-1 CMI Transmitter
Chassis	all gnubi/EPX chassis models
Slot usage	one slot
Signal rate	STM-1 (155.52 MHz)
Line coding	CMI
Connector	BNC 75 Ω
Timing references	EPX100 Clock Module BITS; external; internal
As received timing	recovered clock from adjacent STM-1 CMI receiver
Payload mappings	VC-4 bulk fill; VC-3 bulk fill
Alarm insertion	LOS; LOF; OOF; MS-AIS; MS-RDI; AU-LOP; AU-AIS; HP UNEQ; HP-RDI; LSS
Error insertion types	Physical Random; B1; B2; MS-REI; B3; HP-REI; TSE
Error rates	single or 1E-3 to 1E-9
Data patterns PRBS	2 ¹⁵ -1; 2 ²⁰ -1; 2 ²³ -1 true/inverted
Other patterns	all ones; all zeroes; alt 10; alt 01; fixed 8-bit user
Trace messages	16-byte J0; 64- or 16-byte J1
Pointer controls	increment; decrement; move with/without NDF; set value
Compliance electrical	ITU-T G.707; G.825; G.703 pulse/eye mask
Operating temperature	0 °C to 40 °C non-condensing
Warranty standard	1 year parts and labor UI: EPXam graphical and command-line
Remote access	web browser

PARAMETER	VALUE
Max modules per chassis class	up to 17 Notes Specs from EXFO/Gnubi EPX610 STM-1 CMI Transmitter discontinued datasheet. Confirm chassis, clock module presence, and firmware feature set on the installed system.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 °C to 40 °C non-condensing
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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.

Specifications	
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Error rates	single or 1E-3 to 1E-9
Data patterns PRBS	2^15-1; 2^20-1; 2^23-1 true/inverted
Other patterns	all ones; all zeroes; alt 10; alt 01; fixed 8-bit user
Trace messages	16-byte J0; 64- or 16-byte J1
Pointer controls	increment; decrement; move with/without NDF; set value
Compliance electrical	ITU-T G.707; G.825; G.703 pulse/eye mask
Operating temperature	0 °C to 40 °C non-condensing
Warranty standard: 1 year parts and labor	
Specifications	
PARAMETER	VALUE
UI	EPXam graphical and command-line

PARAMETER	VALUE
Remote access	web browser
Max modules per chassis class	up to 17

Notes

Specs from EXF0/Gnubi EPX610 STM-1 CMI Transmitter discontinued datasheet. Confirm chassis, clock module presence, and firmware feature set on the installed system.

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.