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Data Sheet

August 15, 2026

EXFO

EXFO EPX 710 STM-1 CM1 Receiver

The EXFO/gnubi EPX710 (EPX 710) isaone-slot electrical STM-1 CMI receiver for gnubi/EPX chassis. OEM discontinued spec sheet lists STM-1 at 155.52 MHz, CMI line coding, 75 ohm BNC, selectable VC-4 and VC-3 bulk-fill payload mappings, full section/path overhead capture, and PRBS 2¹⁵-1, 2²⁰-1, 2²³-1 plus all-ones/zeroes and live traffic. Operating temperature is 0 to 40 C non-condensing; electrical interface complies with ITU-T G.707 with G.825 jitter tolerance. Monitoring electrical STM-1 CMI in SDH test systems: alarms, BIP errors, pointer events, J0/J1 traces, and BERT on mapped VC-4/VC-3 payloads.



MODEL

Exfo EPX 710

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

EPX 710

LISTING

<https://aumictechlabs.com/products/epx-710-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO EPX 710 STM-1 CM1 Receiver is a specialized module for analysis of STM-1 signals in telecommunications networks. It delivers essential error detection, performance monitoring, and synchronization testing capabilities for evaluating Synchronous Digital Hierarchy (SDH) links and network elements. Operating at 155 Mbps, the receiver supports both operational and development environments. Technical Specifications Interface: STM-1 (Synchronous Transport Module-1) Data Rate: 155 Mbps Key Features Error detection across SDH transport streams Real-time performance monitoring Synchronization testing and verification Module integration within EXFO test platforms Typical Applications SDH link characterization and validation Network

element performance assessment Telecommunication system testing and troubleshooting
Laboratory and field measurement environments Compatibility & Integration The EPX 710 is designed as a component module within EXFO test chassis and platforms. Integration with specific EXFO test systems of slot compatibility and firmware support with the target measurement platform.

EPX710 Characteristics / Specifications

PARAMETER	VALUE
Model	EPX 710
Instrument Type	STM-1 CMI electrical receiver module
Installation	all gnubi chassis models; uses one slot
Signal Rate	STM-1 (155.52 MHz)
Line Coding	CMI encoding
Connector	BNC 75 ohm
Payload Mappings	VC-4 bulk fill and VC-3 bulk fill
Alarm Monitoring	LOS LOF OOF MS-AIS MS-RDI AU-LOP AU-AIS HP UNEQ HP-RDI LSS
Error Monitoring	B1 regenerator section, B2 multiplex section, MS-REI, B3 path, HP-REI, TSE
Data Patterns	PRBS true and inverted 2 ¹⁵ -1, 2 ²⁰ -1, 2 ²³ -1
Other Patterns	all ones, all zeroes, alternating 10, alternating 01, fixed 8-bit user word, live traffic
Overhead Capture	full section and path overhead capture
J0 Trace	64-byte J0 trace monitor actual and expected with RS-TIM
J1 Trace	16- or 64-byte J1 trace monitor actual and expected with HP-TIM
Pointer Events	increments, decrements, moves with NDF, moves without NDF, pointer values
K1 K	byte values and message decode (request, channel, operation, architecture)
Compliance Electrical	ITU-T G.707 physical layer requirements
Jitter Tolerance	ITU-T G.825
Operating Temperature	0 to 40 C, non-condensing
Manufacturer	EXFO gnubi
Documentation	EXFO discontinued EPX-710 STM-1 CMI Receiver spec sheet
Form Factor	single-slot EPX/gnubi module
Test Features	alarm history, error counts and ratios, BERT

PARAMETER	VALUE
Discontinued	OEM listed discontinued 30 June 2006 with support ending 2009

EPX710 Specifications

PARAMETER	VALUE
Key Features	STM-1 155.52 MHz CMI receiver
Technical Specifications	Model: EPX 710
Notes	From EXFO discontinued EPX-710 STM-1 CMI Receiver specification sheet (gnubi chassis). Optical STM-1 receivers are different EPX SKUs.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	is 0 to 40 C non-condensing; electrical interface complies with ITU-T G.707 with G.825 jitter tolerance.
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Error Monitoring	B1 regenerator section, B2 multiplex section, MS-REI, B3 path, HP-REI, TSE
Data Patterns	PRBS true and inverted $2^{15}-1$, $2^{20}-1$, $2^{23}-1$
Other Patterns	all ones, all zeroes, alternating 10, alternating 01, fixed 8-bit user word, live traffic
Overhead Capture	full section and path overhead capture
J0 Trace	64-byte J0 trace monitor actual and expected with RS-TIM
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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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Notes

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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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.