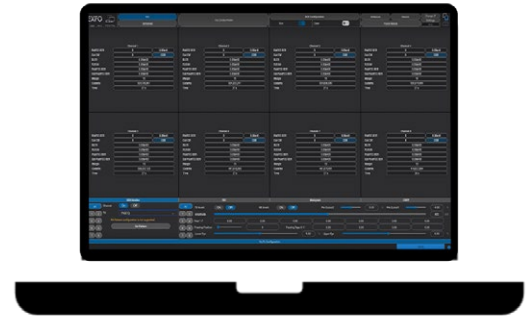


BA-1600-OSFP

1.6T DUAL-PORT BIT ANALYZER

- Delivers up to 3.2T total test capacity with two independent 1.6T OSFP ports for high-speed cable and transceiver validation.



KEY FEATURES

Test two 1.6T transceivers or an end-to-end high-speed interconnect using the dual OSFP ports

Full lifecycle validation for 1.6T, 800G and 400G across lab, fab and live environments

Superior hardware design: native OSFP interfaces, excellent signal quality, clean eye diagram and low error floor

Real-time FEC generation and analysis: testing of pre/post FEC BER, symbol error distribution and FEC margin

BLER: Block error ratio statistics and an efficient FLR estimation mechanism, addressing the time constraints of ultra-low BER measurements

PAM4 support for validating high-speed signaling performance

High-performance signal integrity and BER testing for validating compliance and performance in next-gen 1.6T transceivers and cables

User-friendly GUI streamlines workflows, and reduces learning curves

I²C register read/write access enables the direct control and monitoring of device parameters for fast, low-level diagnostics and efficient debugging

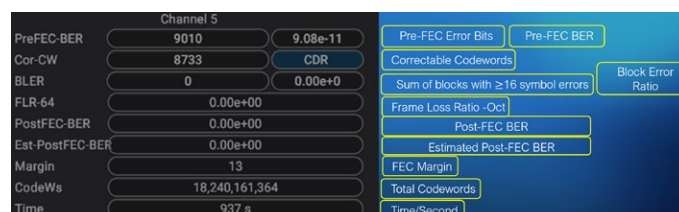
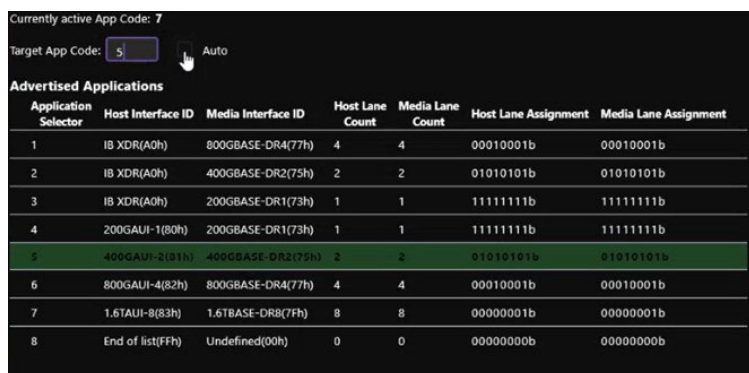
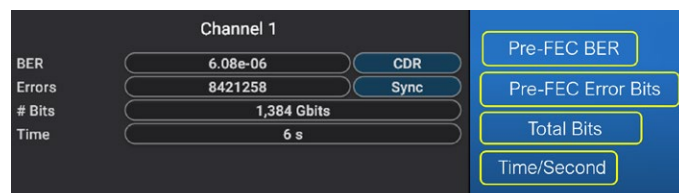
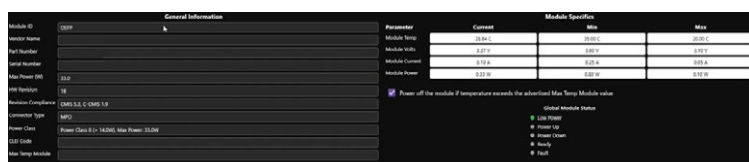
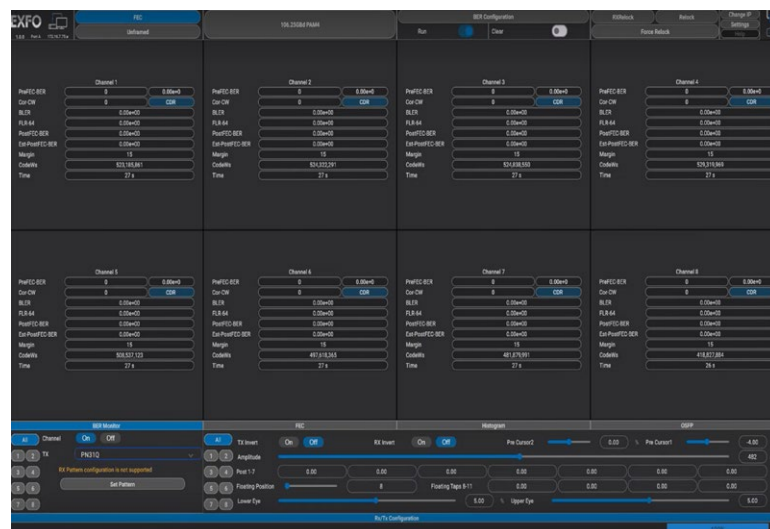
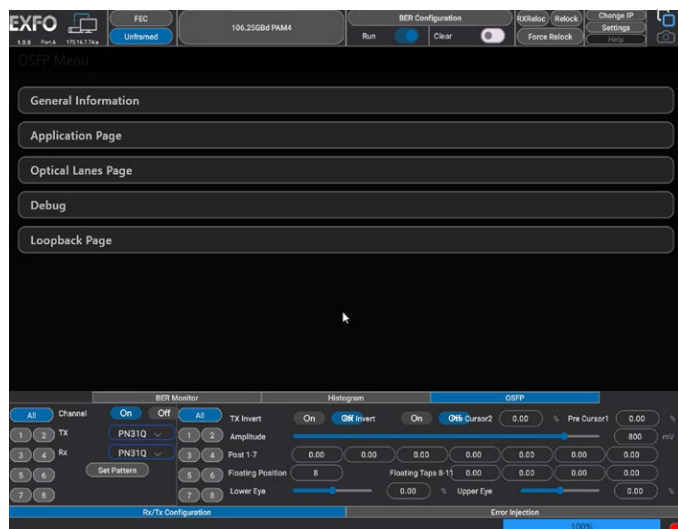
"Save-and-load" functionality for all applicable parameters reduces valuable time and ensures test consistency

Automation simplifies complex test configurations and speeds up validation using a complete API suite

I²C target 3-pin connector that allows for external control of the OSFP

POWERFUL AND SIMPLIFIED USER INTERFACE

The BA-1600-OSFP's graphical user interface (GUI) provides simplified and real-time test results per channel. It requires an external Windows-based PC with Ethernet capability to run the GUI and API.





FEC channel distribution and BLER mask testing



Reference clock

WITH PAM4 CODING, A SIMPLE BER TEST IS NOT ENOUGH



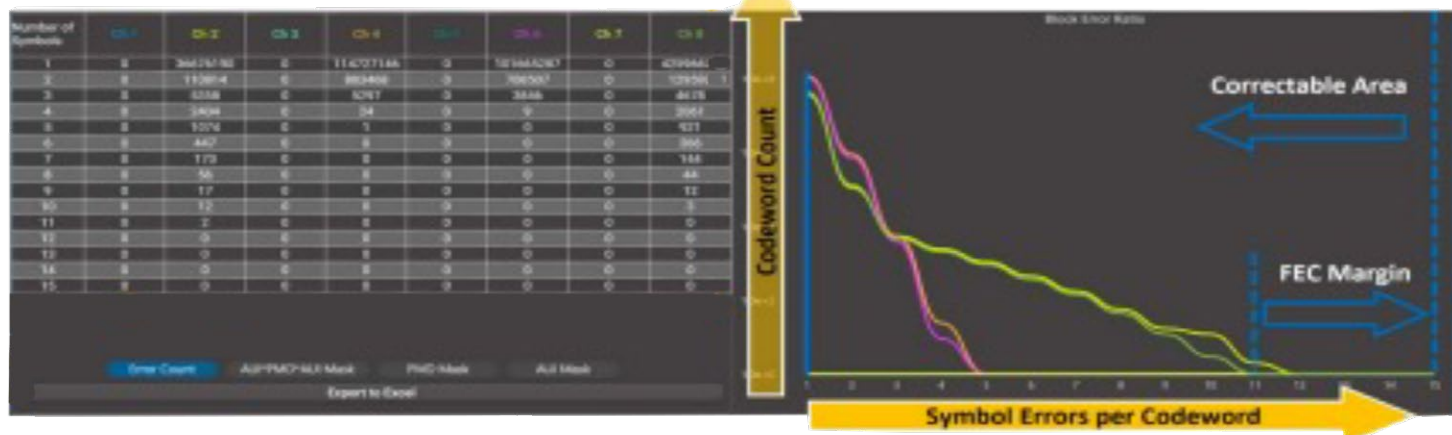
FEC symbol error margin



Channel histogram



14-tap mode



FEC symbol error distribution plot

THE RIGHT MODEL FOR YOUR APPLICATION

EXFO's **BA-1600 Series** and **BA-1600-OSFP** help teams solve the core challenges of 1.6T validation by combining high-speed performance, deeper error visibility, and repeatable workflows from R&D through manufacturing. The chart below shows which model is best suited to each application.

SUGGESTED SOLUTIONS	BA-1600-4	BA-1600-8	BA-1600-8SE	BA-1600-OSFP
Transceiver vendors	●	●	●	●
Cable vendors	○	●	●	●
Component vendor	●	○	○	●
Research and development (lab use)	●	●	○	●
Production and manufacturing	○	○	●	●

DESIGNED FOR HIGH-SPEED AND MULTISERVICE

- 1

Power button
- 2

Display (4.5 inch)
- 3

Air inlet
- 4

Foot rest
- 5

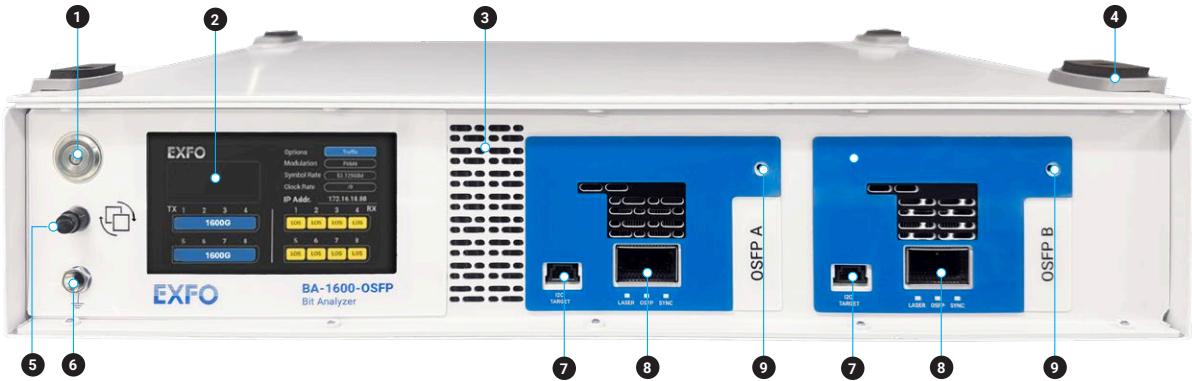
Screen switch button
- 6

Grounding jack
- 7

I²C target 3-pin connector
- 8

OSFP cage
- 9

Connection for external fan kit (optional)



SPECIFICATIONS

SPECIFICATIONS	
Channels	8×2
GUI	Standard
API (automation)	Standard
Unframed mode	Standard: 26.5625G Option: 53.125G, 106.25G
FEC mode	Option
Number of ports	2
Data rate per lane (GBd)	106.25, 53.125, 26.5625
Data rate adjustment (ppm)	±250
PAM4 coding	Gray code
Pattern supported by PPG and ED	PPG: PRBS 7Q/9Q/10Q/11Q/13Q/15Q/20Q/23Q/31Q/49Q/58Q/SSPRQ/SQUARE_WAVE ED: PRBS 7Q/9Q/10Q/11Q/13Q/15Q/20Q/23Q/31Q/49Q/58Q ^a
PG maximum amplitude (mV _{ppd})	900
JRMS (mUI)	≤23 ^b
EOJ03 (mUI)	≤25 ^b
JH4u (mUI)	≤135 ^b
ED maximum level (mV _{ppd})	1200
ED damage level (mV _{ppd})	1300
TX multi tap pre-emphasis support	10 fix taps + 4 floating taps ^c
Connector type	OSFP (IHS) ^d

GENERAL SPECIFICATIONS	
Size (H × W × D)	105 mm × 465 mm × 350 mm (4.1 in × 18.3 in × 13.8 in)
Weight	≤ 5 kg (11 lb)
Temperature Operating Storage	0 °C to 40 °C (32 °F to 104 °F) -40 °C to 70 °C (-40 °F to 158 °F)
Relative humidity	≤95 % non-condensing
Power	100 VAC to 240 VAC (47 Hz to 63 Hz) 200 W typical / 250 W max

ACCESSORIES	
GP-3277	19-inch rackmount brackets (kit of 2)

a. Only 13Q, 20Q, 23Q, 31Q, 49Q, 58Q patterns are supported in RX at 106.25 GBaud.

b. Refer to 802.3dj table 176D-2.

c. Max 14 UI away from fix taps.

d. Supports up to 33 W module at 35 °C ambient; 30 W at 40 °C ambient; without external fan kit.

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