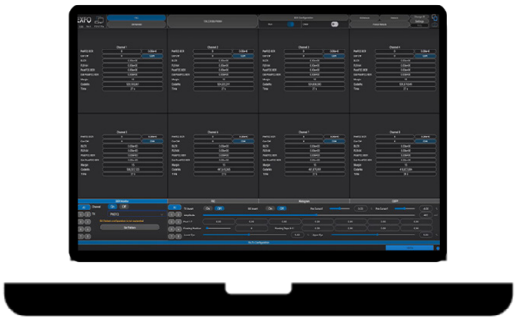
SPEC SHEET

BA-1600-OSFP

1.6T DUAL-PORT BIT ANALYZER



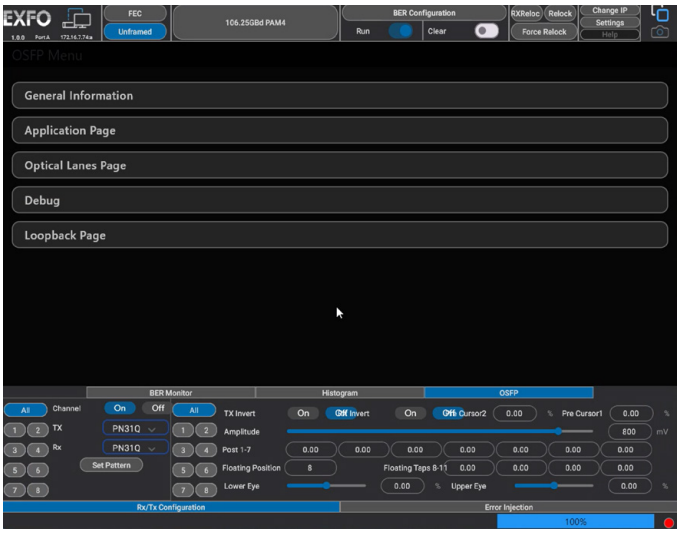
- Achieve up to 3.2T total test capacity with two independent 1.6T OSFP ports. Test solution optimized for cable and transceiver validation.

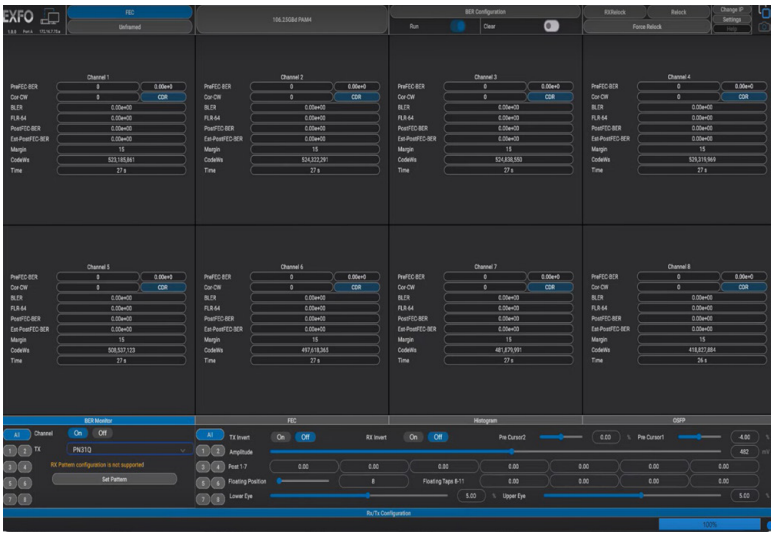
KEY FEATURES

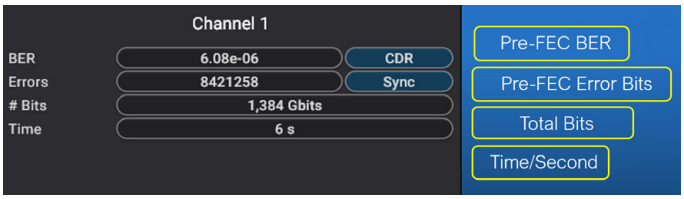
- Test two 1.6T transceivers or an end-to-end high-speed interconnect using the dual OSFP ports
- Full lifecycle validation for 1.6T, 800G and 400G across lab, fab and live environments
- Superior hardware design: native OSFP interfaces, excellent signal quality, clean eye diagram and low error floor
- 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

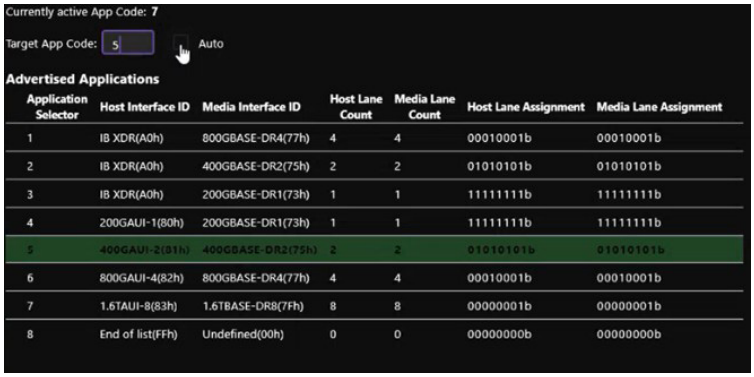
POWERFUL AND SIMPLIFIED USER INTERFACE

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.

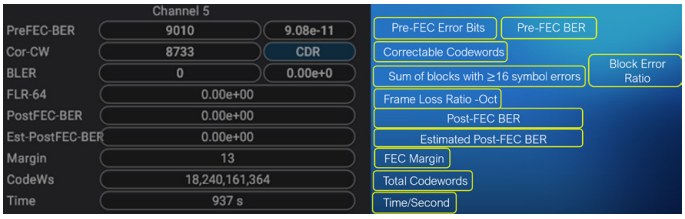


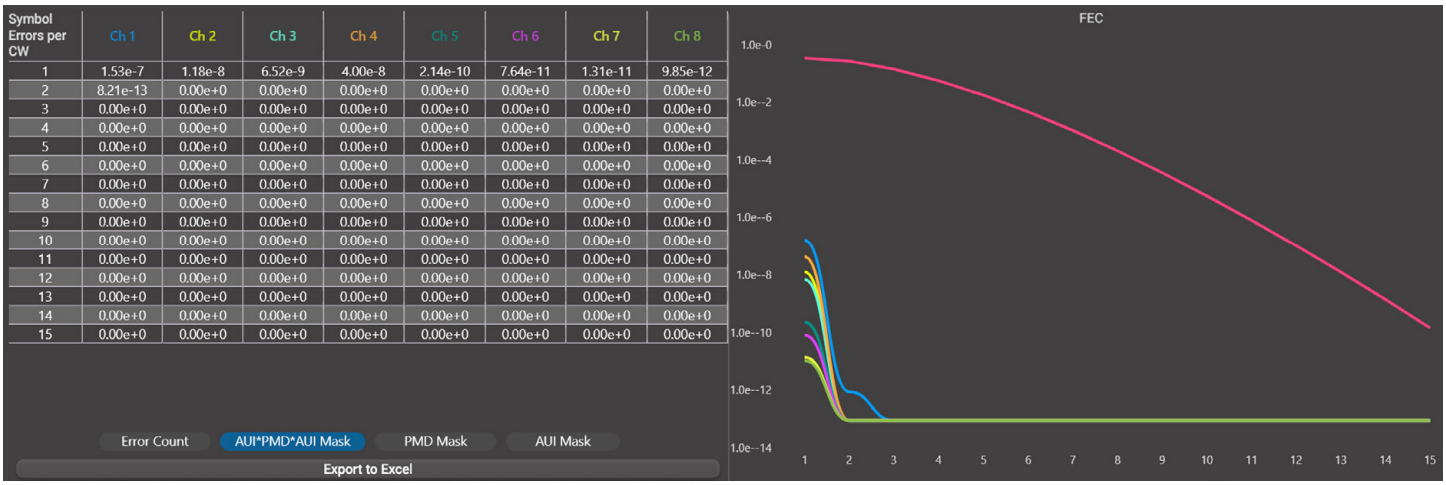




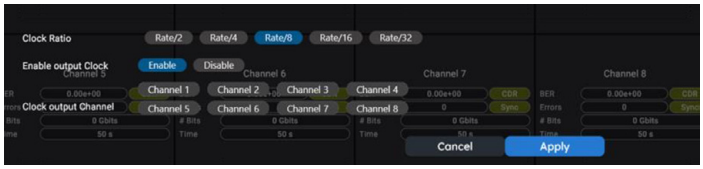


Application Selector	Host Interface ID	Media Interface ID	Host Lane Count	Media Lane Count	Host Lane Assignment	Media Lane Assignment
1	IB XDR(A0h)	800GBASE-DR4(77h)	4	4	00010001b	00010001b
2	IB XDR(A0h)	400GBASE-DR2(75h)	2	2	01010101b	01010101b
3	IB XDR(A0h)	200GBASE-DR1(73h)	1	1	11111111b	11111111b
4	200GAUI-1(80h)	200GBASE-DR1(73h)	1	1	11111111b	11111111b
5	400GAUI-2(81h)	400GBASE-DR2(75h)	2	2	01010101b	01010101b
6	800GAUI-4(82h)	800GBASE-DR4(77h)	4	4	00010001b	00010001b
7	1.6TAUI-8(83h)	1.6TBASE-DR8(7Fh)	8	8	00000001b	00000001b
8	End of list(FFh)	Undefined(00h)	0	0	00000000b	00000000b





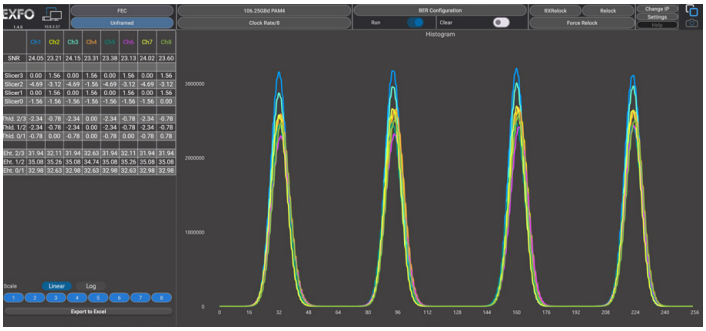
FEC channel distribution and BLER mask testing



Reference clock

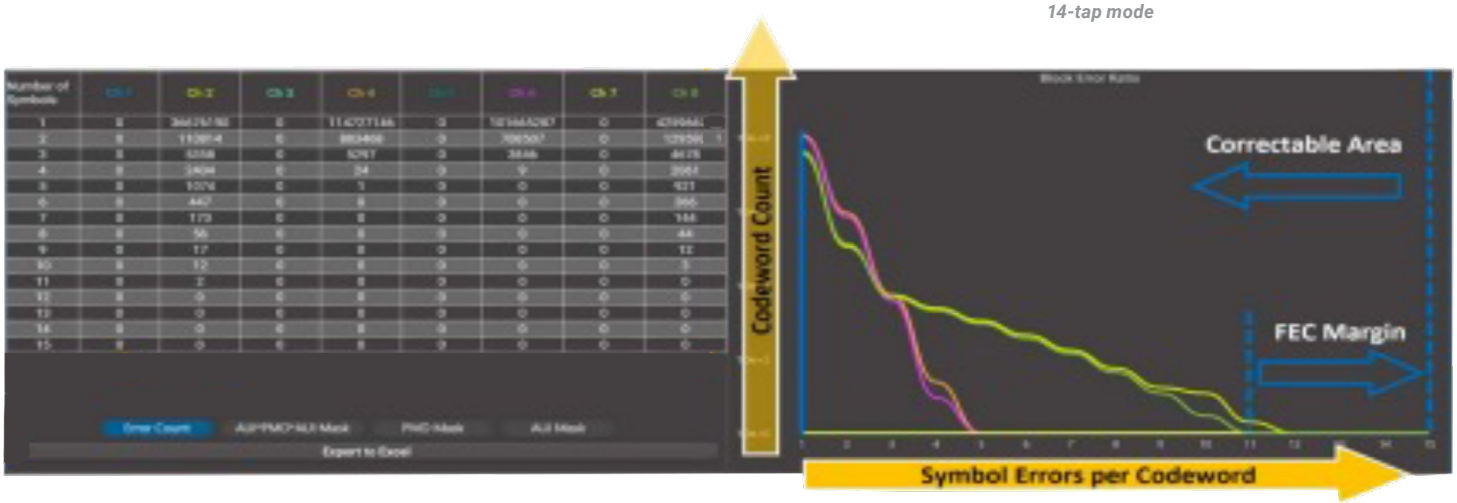
WITH PAM4 CODING, A SIMPLE BER TEST IS NOT ENOUGH

FEC symbol error margin



Channel histogram

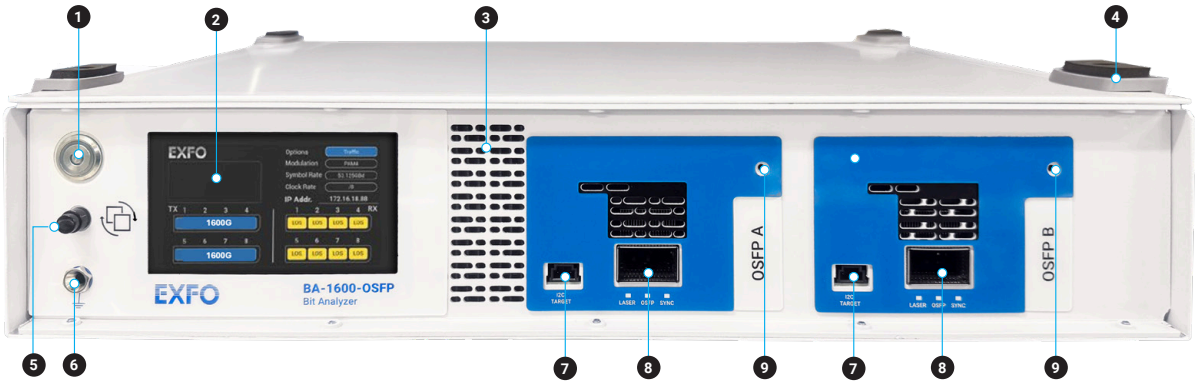
14-tap mode



FEC symbol error distribution plot

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

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Number of ports	2
Data rate per lane (GBd)	106.25, 53.125 and 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
J_{RMS} (mUI)	≤23 [b]
EOJ_{03} (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) 200W typical / 250W max

ACCESSORIES	
GP-3277	19” relay rack mounting bracket + screws/HW

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

EXFO headquarters **T** +1 418 683-0211 **Toll-free** +1 800 663-3936 (USA and Canada)

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