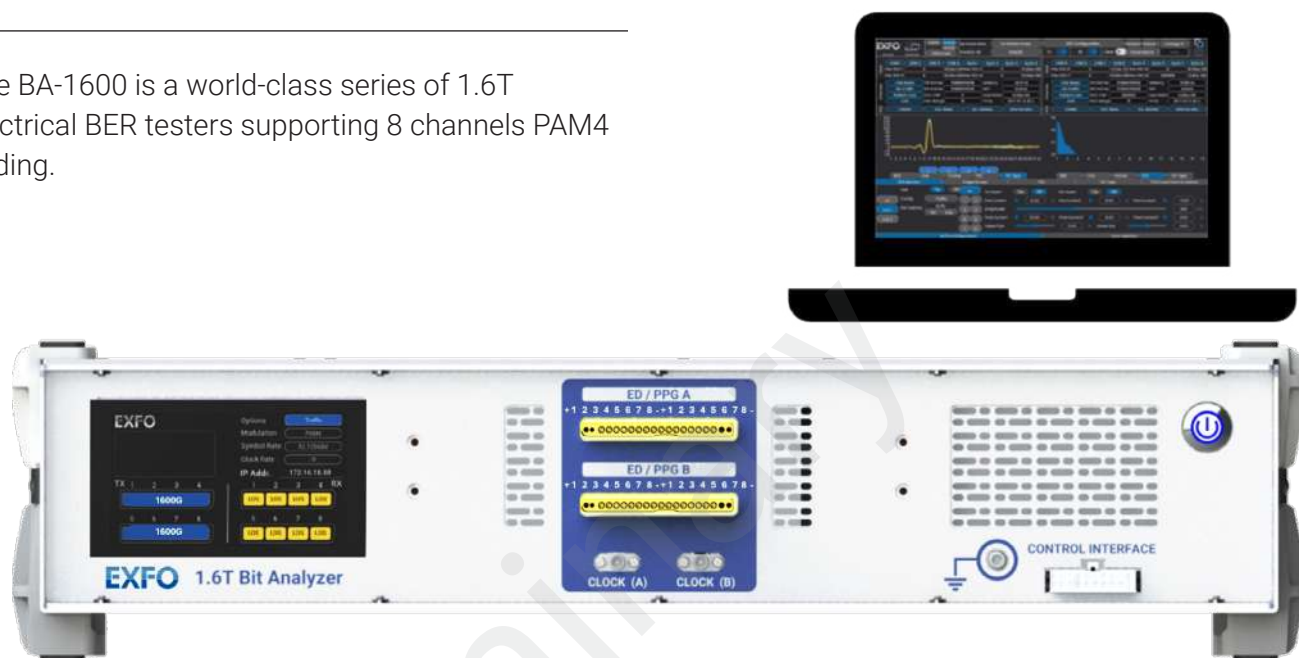


BA-1600

1.6T BIT ANALYZER

- The BA-1600 is a world-class series of 1.6T electrical BER testers supporting 8 channels PAM4 coding.



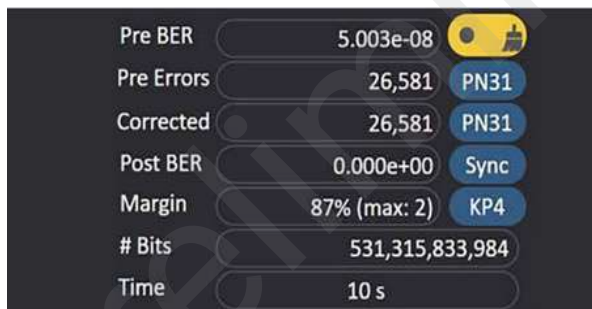
KEY FEATURES

- High performance signal integrity and BER test function.
- Powerful and user-friendly graphical user interface (GUI)
- PAM4 support
- FEC generation and analysis
- Channel PAM4 Histogram
- Channel mapping
- I2C register read/write access
- Save and load functionality for all applicable parameters.
- Automation

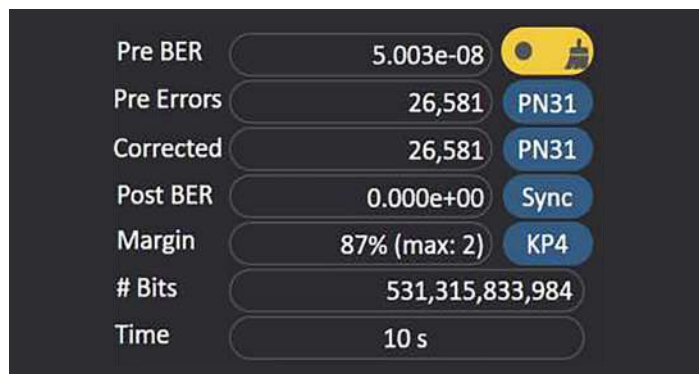


POWERFUL AND SIMPLIFIED USER INTERFACE

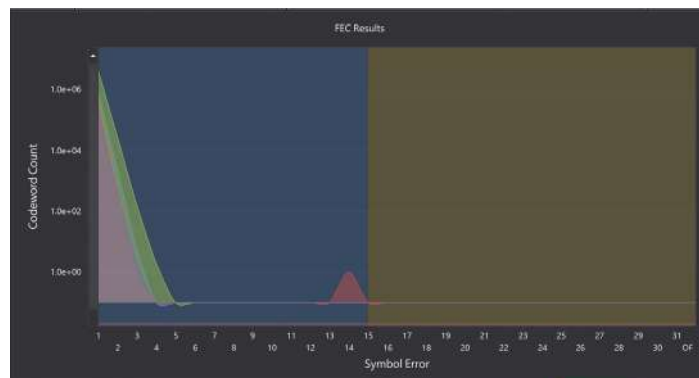
The BA-1600 graphical user interface (GUI) provides simplified and real-time test results per channel. It requires an external Windows-based PC with Ethernet capability to run the GUI and API.



WITH PAM4 CODING, A SIMPLE BER TEST IS NOT ENOUGH



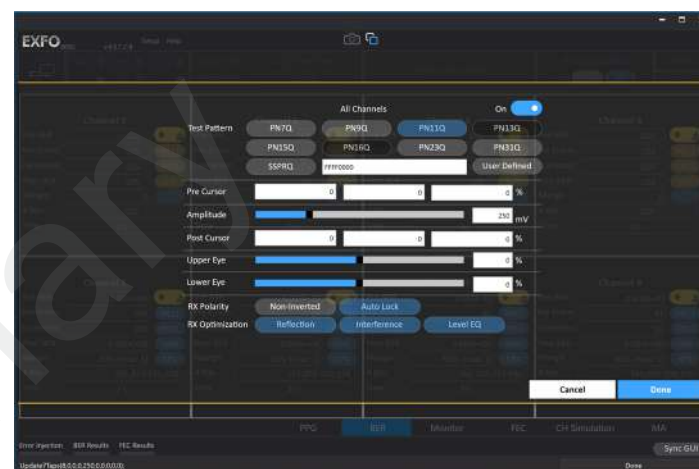
FEC symbol error margin



FEC symbol error distribution plot



Channel histogram

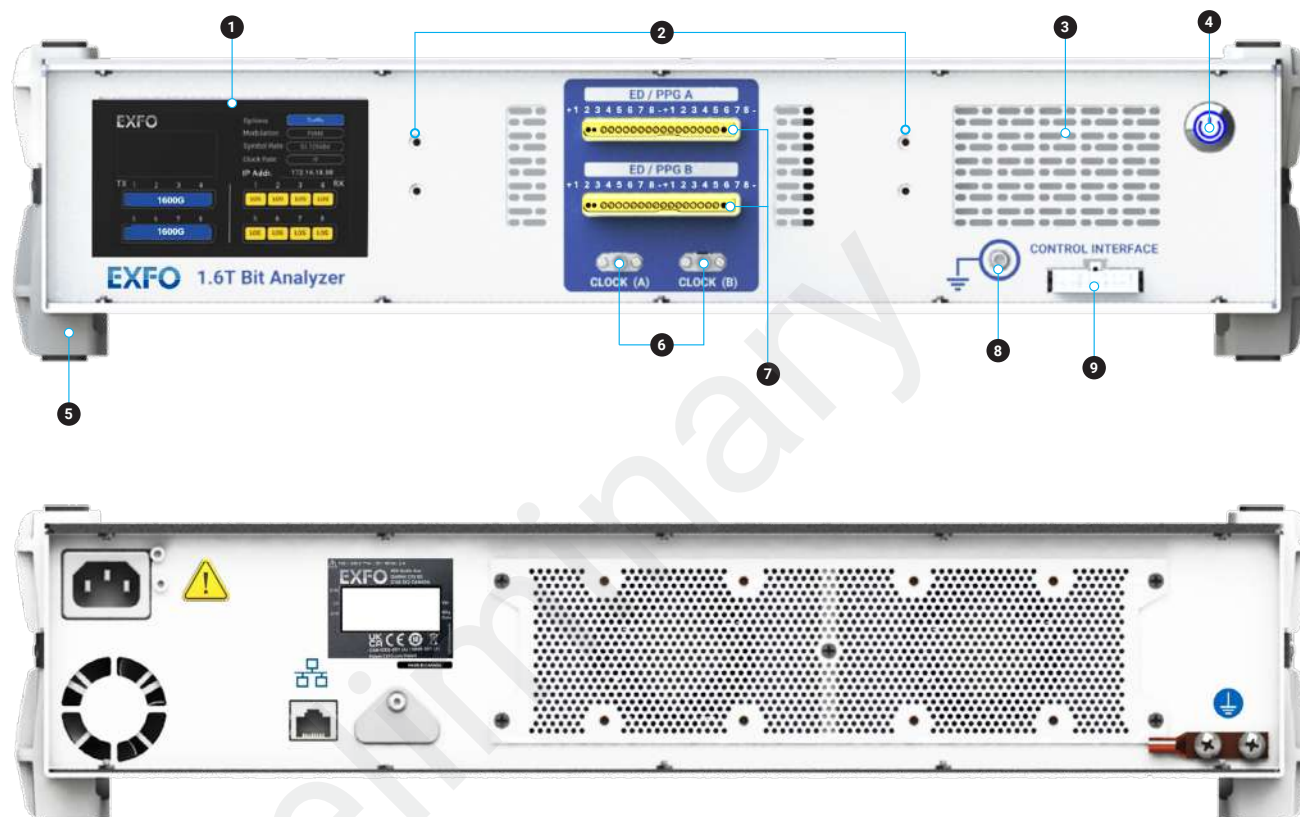


10-tap mode



DESIGNED FOR HIGH-SPEED AND MULTISERVICE

- ① Display 4.5 in
- ② MCB support bracket mount (optional)
- ③ Air inlet
- ④ Power button
- ⑤ Foot rest
- ⑥ Clock interfaces
- ⑦ RF user connectors (SMPX)
- ⑧ Ground jack
- ⑨ MCB interface connector



SPECIFICATIONS

BA-1600

Number of channels	8
Data rate per lane (GBd)	106.25, 53.125 and 26.5625 Gbaud/lane
Data rate adjustment (ppm)	±250
PAM4 coding	Gray code
Pattern supported by PPG and ED	PRBS 9, 11, 15, 23, 31 and SSPRQ. Future support PRBS 7, 58, Square Wave
Maximum amplitude (mV _{ppd})	900
Rise/fall time (20% to 80%) (ps)	(TBD)
PAM4 eye width (zero hit) (ps)	(TBD)
Jitter RMS (fs)	(TBD)
Sensitivity (mV _{ppd}) ^a	250
CTLE (dB)	(TBD)
ED damage level (mV _{ppd})	(TBD)
TX multi tap pre-emphasis support	10
RX equalization	Adaptable 16 taps FFE
Connector type	SMPX 1x16 from Rosenberger
TX adjustable differential amplitude	(TBD)

MODULE COMPLIANCE BOARD (MCB) (OPTIONAL)

Recommended MCB	Wilder OSFP-1.6T-TPA1.85-MCB-RC
Interface	OSFP1600 support
Power class	Class 4 and higher pluggable with cooling system
CMIS	CMIS control and I2C read / write



GENERAL SPECIFICATIONS

Size (H x W x D)		115 mm x 465 mm x 300 mm (4.5 in x 18.3 in x 11.8 in)
Weight		≤ 10 kg (22 lb)
Temperature	Operating Storage	5 °C to 40 °C (41 °F to 104 °F) -20 °C to 70 °C (-4 °F to 158 °F)
Relative humidity		20% to 80%
Power		100 Vac to 240 Vac (47 Hz to 63 Hz) 60 W typical / 80 W max.

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