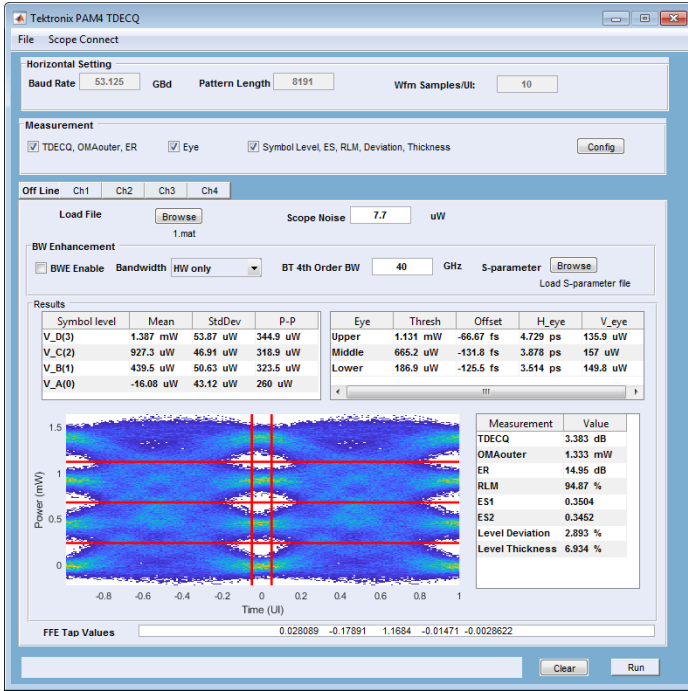


400G Optical Manufacturing Analysis Software

DSA8300 400G-M4 optical analysis software for 4-channel TDECQ



The DSA8300 400G-M4 is a PC based application for PAM4 optical signal validation. The 400G-M4 application supports 4-channel simultaneous acquisition and integrated receiver equalization with support for both auto-optimization and user defined equalizer taps values.

Key features

- PC based application for PAM4 optical signal validation for repeatable, reliable measurements
- Support for 4 channel simultaneous acquisition
- Automated TDECQ measurement for PAM4
- Support for bandwidth enhancement filter for 4th order Bessel-Thomson response
- Support for customer defined filters

PAM4 measurements

The DSA8300 400G-M4 dashboard style configuration panel enables quick and easy configuration of all necessary parameters for PAM4 analysis.

The PAM4 analysis package provides a comprehensive set of measurements for manufacturing test. TDECQ analysis automates a complex optical PAM4 measurement used to characterize the optical transmitter vertical eye closure.

Measurement capability

Category	Measurements
IEEE specified measurements	TDECQ
Optical measurements	Statistical Eye Analysis $\frac{V_{upp}/V_{mid}/V_{low}}{H_{upp}/H_{mid}/H_{low}}$
	Extinction Ratio (ER)
	OMA outer (PAM 4 optical modulation between level 0 and level 3)
	Average Optical Power (AOP)
Correlated waveform	Level deviation
	Level thickness
	Time deviation

PC requirements

- i3 4th generation processor
- 8 GB RAM
- 256 GB hard drive
- Minimum resolution 1920 x 1080
- Win 10, 64 bit
- MATLAB runtime v9.3

Ordering information

Models

DSA8300 400G-M4	400G Optical Manufacturing Analysis Software, 4 channel TDECQ
DSA83UP 400G-M4	400G-M4 upgrade for existing customers who already have a DSA8300

Prerequisites

Option ADVTRG (Advanced Trigger with Pattern Sync) for the DSA8300 is required.



Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.

ASEAN / Australasia (65) 6356 3900
Belgium 00800 2255 4835*
Central East Europe and the Baltics +41 52 675 3777
Finland +41 52 675 3777
Hong Kong 400 820 5835
Japan 81 (3) 6714 3086
Middle East, Asia, and North Africa +41 52 675 3777
People's Republic of China 400 820 5835
Republic of Korea +822 6917 5084, 822 6917 5080
Spain 00800 2255 4835*
Taiwan 886 (2) 2656 6688

Austria 00800 2255 4835*
Brazil +55 (11) 3759 7627
Central Europe & Greece +41 52 675 3777
France 00800 2255 4835*
India 000 800 650 1835
Luxembourg +41 52 675 3777
The Netherlands 00800 2255 4835*
Poland +41 52 675 3777
Russia & CIS +7 (495) 6647564
Sweden 00800 2255 4835*
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Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777
Canada 1 800 833 9200
Denmark +45 80 88 1401
Germany 00800 2255 4835*
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Mexico, Central/South America & Caribbean 52 (55) 56 04 50 90
Norway 800 16098
Portugal 80 08 12370
South Africa +41 52 675 3777
Switzerland 00800 2255 4835*
USA 1 800 833 9200

* European toll-free number. If not accessible, call: +41 52 675 3777

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