

# PSS DCA10021 10G DCA



## Product Introduction

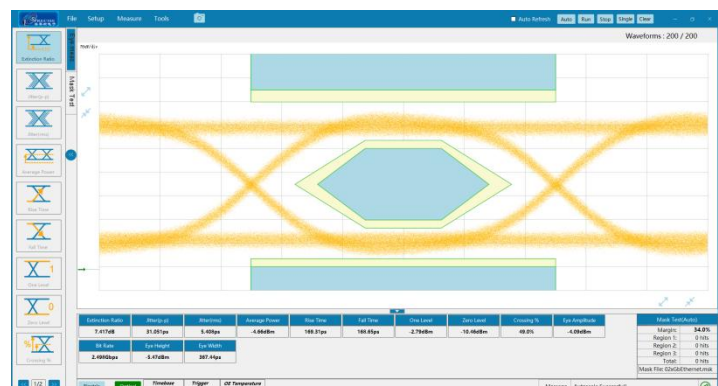
PSS DCA10021 optical sampling oscilloscope is used for transmitter performance index test, supports optical and electrical interface input, the optical channel has a typical filter of 10Gbps and below optical interface, and the electrical channel bandwidth is up to 20GHz.

Using the best vertical resolution, high sampling rate ADC to achieve continuous equivalent sampling technology, combined with the algorithm to complete the eye diagram reconstruction, excellent circuit design to ensure that the system noise is as low as 3uw, with a calibrated reference receiver (in line with industry tolerances standard), which perfectly meets the needs of the industry for accurate testing of digital waveforms.

High-precision, low-noise, low-cost, fast-sampling oscilloscopes provide customers with a one-stop solution for optoelectronic performance testing.

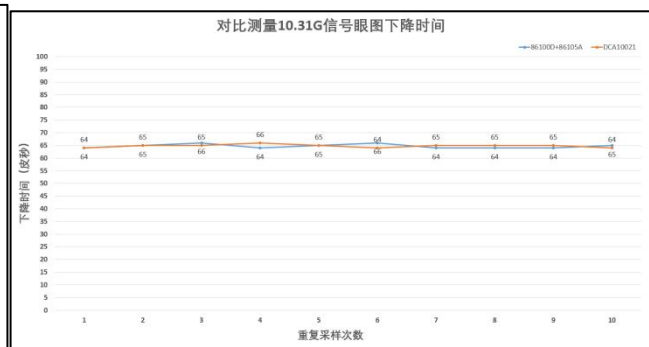
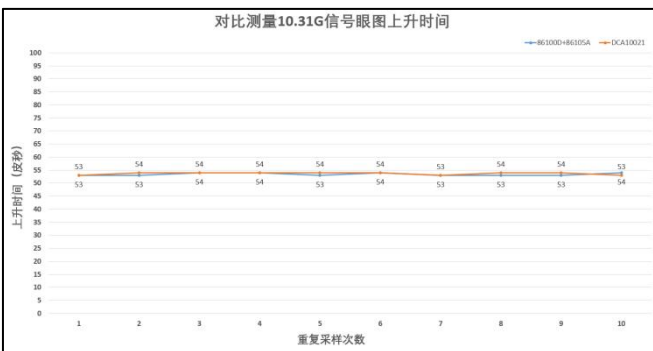
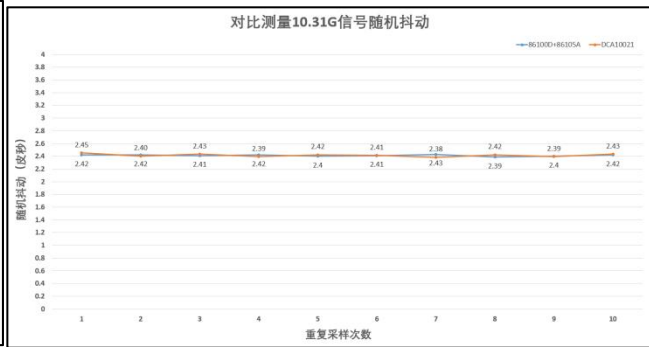
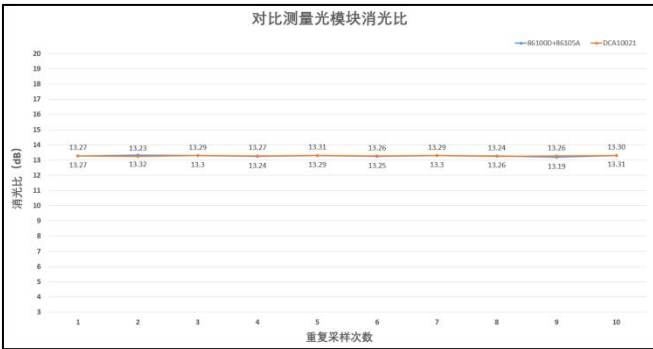
## Product application

- Optical transmitter performance test
- Electrical signal quality test



## Product features

- High resolution, high sampling rate ADC
- Electrical channel bandwidth up to 20GHz
- Optical channel supports different rate (1-11Gbps) filter options
- The optical receiver supports single-mode and multi-mode interfaces
- ER self-calibration, dark current calibration
- Support common Mask and Margin tests in the industry
- Compared with imported oscilloscopes to test extinction ratio, jitter, rise/fall time, high consistency



## Technical Parameters

Optical channel parameters	Reference
Optical channel bandwidth	10GHz
wavelength range	750nm~1650nm
RMS noise	3uw
sensitivity	-12dBm
Average Power (Consistency)	±0.1dB
Extinction Ratio (Consistency)	±0.1dB
Stencil Margin (Consistency)	±2.5%
Maximum input (without breaking peak power)	+3dBm
Maximum input (linear test range)	0dBm
Monitor average power measurement range	-17dBm~+3dBm
Input Return Loss	30dB
Fiber access	62.5/125um FC/UPC
Electrical channel parameters	Reference
Maximum Input Bandwidth	20GHz
Maximum input range	1Vpp
RMS noise	<1mV
sensitivity	<50mV
input resistance	50Ω
return loss	<-18dB
input interface	3.5mm/2.92mm(Female)
trigger parameter	Reference
Clock input bandwidth	80MHz~4GHz
Clock Input Sensitivity	<50mV
Trigger on maximum input signal	≤±2V
Trigger input impedance	50Ω
Trigger input interface	3.5mm(Female)
Time Base Interval Accuracy	<64fs
Sampling parameters	Reference
Sampling points	≤3500 点/Waveforms@10Gbps; ≤9000 点/Waveforms@1.25Gbps
Cumulative waveform range	1~10 million Waveforms (more waveform ranges can be customized)
refresh rate	100Waveforms/S
Machine parameters	Reference
number of channels	Optical channel x1; electrical channel x1
filter	1.229/1.244/1.25/2.5/10Gb/s 2.458/2.488/2.5Gb/s 3.072/3.125Gb/s 6.144/6.25Gb/s More rate filters can be customized
temperature monitoring	support