M8199A ARBITRARY WAVEFORM GENERATOR

Linz

BRIEF DESCRIPTION

The M8199A arbitrary waveform generator (AWG) provides a high-performance signal source for arbitrary signals, enabling development of designs of 128 GBaud and above. All details: https://www.keysight.com/us/en/product/M8199A/arbitrary-waveform-generator-128-256-gsas.html

RESEARCH SERVICES

The Keysight M8199A arbitrary waveform generator (AWG) has the highest sample rate and the widest bandwidth in its class with up to four synchronized channels operating simultaneously in one module

- Up to 70 GHz analog bandwidth
- Built-in frequency and phase response calibration for clean output signals
- 6 bits ENOB, DC to 50 GHz, Fs 100 GSa/s
- Intrinsic jitter: < 75 fs
- Continuous sample rate range: 100 to 128 GSa/s resp. 200 to 256 GSa/s
- Up to 1.4 Vpp differential output voltage @128 GBd
- Transition time (20/80) as low as 5 ps
- Channel-to-channel skew adjustment with 25 fs resolution
- Synchronization of up to 16 channels across 4 modules
- < 140 dBc wideband phase noise > 1 MHz
- 512 KSa / 1 MSa of waveform memory per channel

METHODS & EXPERTISE ON THE RESEARCH INFRASTRUCTURE

- Analog bandwidth up to 70 GHz
- Continuous sample rate range at 100 to 128 GSa/s (4-channel), or at 200 to 256 GSa/s (2-channel)
- Synchronization of up to 16 channels across 4 modules (128 GSa/s) or up to 8 channels across 4 modules (256 GSa/s)
- Built-in frequency and phase response calibration for clean output signals

CONTACT

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