

# Save 15% on CX3300 Application Bundles

For Non-Volatile Memory (NVM)  
Applications



## Challenges of Non-Volatile Memory (NVM) Characterization

With the evolution of the information society, such as AI, IoT, and Big Data, the demand for non-volatile memory (NVM) is increasing, which makes the requirements for NVM more stringent. As a result, the NVM trend has shifted away from NAND Flash memory and toward advanced NVMs such as ReRAM and PCRAM, which are expected to be faster, have a longer life, and consume less power.

Most of the advanced NVMs are dual-terminal devices; the set/reset pulse controls the on/off state, and the reading pulse reads the on/off state. Faster operation of the NVMs generally requires a narrow pulse, and lower power consumption usually requires low current sensing. Thus, accurately visualizing fast transient current characterization during the Set/Reset narrow pulse is critical for accelerating the research and development of Advanced NVM.

## CX3300 Prepares You for the NVM's Challenges

The Keysight CX3300 Series Current Waveform Analyzer easily and accurately visualizes never before seen fast current waveform by integrating its powerful measurement capabilities, ultrawideband low current sensing technology, and easy-to-use software.

- 200 MHz wide bandwidth and high-resolution / high-speed sampling at 16-bit (75 MSa/s) / 14-bit (1 GSa/s) clearly visualize fast transient characterization less than 100 ns.
- Maximum 256 Mpts memory depth enables long-duration measurement and capturing precise Set/Reset/Read waveforms in a single measurement.
- CX1103A low-side current sensor enables ultra-wideband low current measurement from 150 pA to 20 mA with maximum 200 MHz bandwidth.
- Powerful data analysis capabilities such as Anywhere Zoom, Current Profiler, FFT, etc., enable quick analysis of the transient current response to the applied voltage pulse.
- An oscilloscope-like familiar user interface enables intuitive operation.

# Take Advantage of the 15% Bundle Discount for NVM Applications

When ordering the CX3324A, including the below options and its sensor/adaptor, you can save ~15% off the list price, including KeysightCare Assured First Year Support relative to purchasing the same items individually <sup>1</sup>.

Product	Description	Minimum required number
CX3324A with Option B20/256	4 channel mainframe Opt. B20: Bandwidth 200 MHz Opt. 256: Memory 256 M pts/Ch	1
CX1103A	Low-side current sensor	1
CX1151A	Passive probe interface adapter	1

<sup>1</sup> CX3322A (2 Channel Main frame) is not applicable

## To Take Advantage of This Offer

- Contact a [Keysight representative or authorized partner](#).
- To learn more about the NVM application using the CX3300, please visit the links below:
  - [Application Note - Non-Volatile Memory Devices Characterization](#)
  - [Application Brief - Accelerate the development of Next Generation Non-Volatile Memory](#)
  - [YouTube Videos](#)



For more information on Keysight Technologies' products, applications, or services, please visit: [www.keysight.com](http://www.keysight.com)



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