

The MiNT Systems **Synasys ▶ Series**[™] Model MiNT8300 is a flexible test and measurement platform, featuring multiple modular plug-ins that facilitate signal measurement, analysis, and test functions. Up to three (3) modules, plus an additional twelve (12) expansion modules, may be installed simultaneously in the MiNT8300 to perform multi-channel analog and digital waveform generation and capture.

In addition to its versatility in combining with a variety of standard instrument modules, the MiNT8300 platform has the capability to use custom modules designed expressly for specific test requirements. The modular architecture of the MiNT Systems Model MiNT8300 allows users to optimize the mixed signal instrumentation and application needs for each test requirement, from the DSO and the logic analyzer to the full R&D and production test system. Further enhancing functionality, MiNT is continuously adding new modules to the MiNT8300 family to provide more test functions with wider bandwidth, higher resolution, sampling rates, and channel density.

The included PC Windows-based software allows the user to create, edit, and store custom test programs used to collect and analyze the most complex mixed signal combinations. Additionally, the network-ready MiNT8300 is equipped to interface with your factory intranet, providing test results and data analysis to those who need it most. The PC-based controls allow the MiNT8300 to be incorporated into the network in minutes.

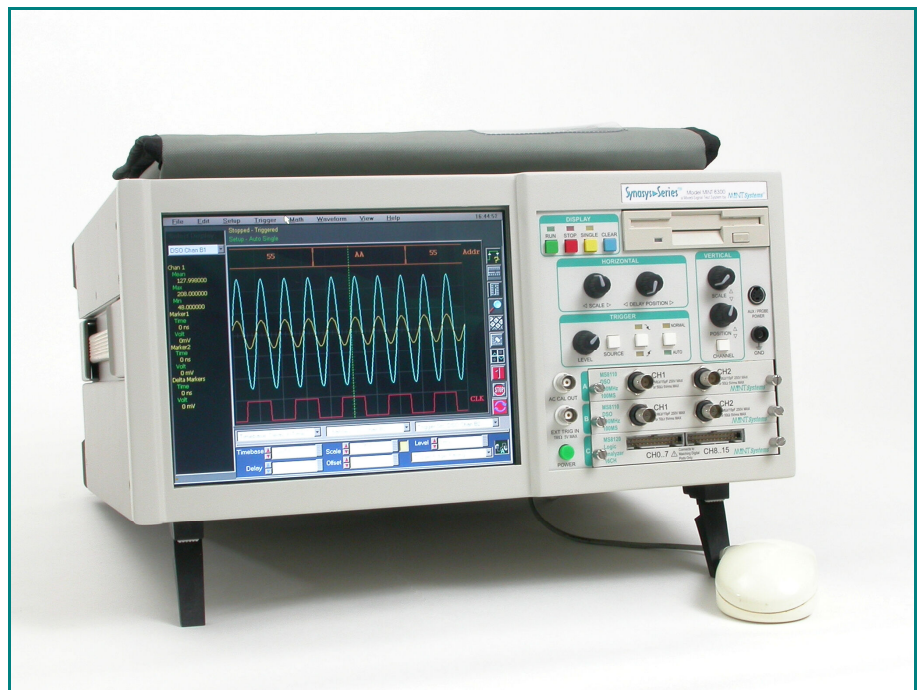
Flexible and expandable, the MiNT Systems **Synasys ▶ Series**[™] Model MiNT8300 can be used as a standalone instrument to provide functions such as the DSO, as a combination instrument for mixed signal testing and measurement, or as an application-specific ATE system.

Features:

- Multiple test and I/O channels
- Mixed Signal Waveform display, Support multiple DSO and Logic Channels
- Color display & external display capability
- FFT Spectrum Analyzer
- Network Ready Instrument
- Flexible Sampling Rate
- 100ps timing resolution
- Multiple analog channels
- Multiple digital channels
- Module synchronization
- PC Based Windows controls
- Instrument interface expansion for more instrument modules
- Plug and Play instrument modules for analysis & waveform display
- Auxiliary power supports external sensors or probes

Supported Functions:

- ◆ Mixed signal (analog and digital) waveform acquisition
- ◆ Mixed signal waveform generation
- ◆ Application specific testing
- ◆ Digital Storage Oscilloscope (DSO)
- ◆ Logic analyzer
- ◆ Arbitrary waveform generator
- ◆ Arbitrary waveform digitizer
- ◆ DC force and measurement
- ◆ AC force and measurement
- ◆ Digital Outputs
- ◆ Customized test functions



Synasys ▶ Series[™] The MiNT8300 integrates many instruments into one convenient system, offering systematic test and measurement solutions.

Specifications¹:

Synasys ▶ Series™

Model MiNT8300

Acquisition System

System sync Clock:	100MHz
Sampling rate:	Module dependent
Equivalent Time Sampling:	10GS/s
Trigger Sources:	2 per Module
Trigger Modes:	Auto, Normal, Single, TV, Edge Pattern, State
Pre-trigger:	Module dependent
Post-trigger:	4,000,000 Samples
Memories:	Set-ups, Waveforms, Screens
Measurements:	Amplitude, P-P, High, Low, Min, Max, Mean, RMS, Frequency, Period, Pulse Width, Rise/Fall Time, Duty Cycle, Overshoot
Math Functions:	FFT, Addition, Subtraction, Multiplication, Division, XY, Integration, derivative, ΔV, Δt



The Synasys ▶ Series™ system's three module capacity offers a great deal of flexibility in choosing combinations of test functions.

Time Base System

Time Division:	10
Time Base:	2ns/div to 5s/div
Time Base Accuracy:	± 0.01%
Time Base Resolution:	100ps
Δt Cursors:	2
Cursor Accuracy:	± 200ps ± 0.2% of full scale
Skew Adjustment:	100ps

General

System Display:	10.4 " color LCD
System Configuration:	3 module slots per base system
Expansion Configuration:	12 module expansion via Instrument Expansion
System I/O:	DC Cal In, AC Cal In, DC Cal Out, AC Cal Out, Trig Out, Clock Out, Channel Out, USB, RS232, Parallel Port, Audio, Monitor Output, LAN, Instrument Expansion, Auxiliary Power
AC Power Requirement:	115/230V, ±15%, 50Hz/60Hz, 600 VA
Dimensions:	16.7"(425mm)W x 8"(203mm)H x 16"(406mm)D
Weight:	30lb (13.6kg)
Humidity:	20% to 80% RH, non-condensing
Operating Temperature:	10°C to 27°C



MiNT SYSTEMS CORPORATION

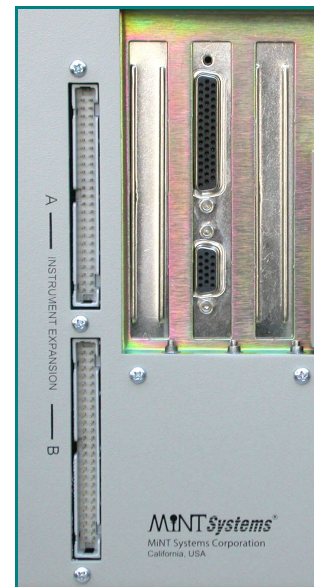
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Software

Synasys ▶ Series™ System Software:	MS Windows platform, runtime graphic display, auto calibration, measurement and test control, data analysis tools
Synasys ▶ Series™ Application Software:	Module dependent

Options

Synasys ▶ Series™ Control Link	Support multiple Synasys ▶ Series™ systems
Accessories:	Rack mount hardware, mouse, keyboard, external display
Interface:	IEEE488
Application Specific Test modules and solutions:	Please contact MiNT Systems Corporation for more information



The Instrument Expansion Bus extends the Synasys ▶ Series™ system's capabilities beyond the native three module capacity to accommodate more demanding test requirements.

Representative:

¹ Preliminary specifications subject to change.