

AU7100 Series

Component Test System

Value and flexibility for high frequency commercial and military test requirements.



Agilent Technologies

Channel Partner



AURIGA
MEASUREMENT SYSTEMS, LLC

AU7100 Series Component Test System

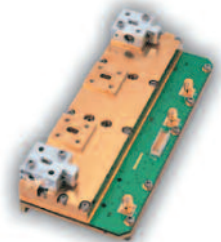


I. Features:

The AU7100 component test system is designed for both low volume R&D and high volume manufacturing of high-frequency commercial and military module and MMIC devices. Using a single-connection, multiple-measurement architecture, AU7100 combines multi-state device control with easy-to-use software to achieve high throughput test of device parameters. The AU7100 is capable of making a variety of CW and pulsed microwave measurements up to 50GHz on both linear and frequency translating devices.

Basic test capabilities for the AU7100 system include:

- S-Parameters, CW and pulsed
- DC voltage and current, CW and pulsed
- Tuned power, input and output (up to 50W)
- Gain (linear and conversion)
- Gain Compression (1, 3, 5 dB)
- Gain Flatness
- Efficiency
- Harmonics
- Total Harmonic Distortion
- Spurious Signals (known, unknown)
- Third Order Intercept
- RF Pulse Profile
- DC Pulse Profile
- Pulse Droop (Mag/Ph)
- Noise Figure, CW and pulsed
- Frequency translation measurements
- Group Delay (Vector corrected)



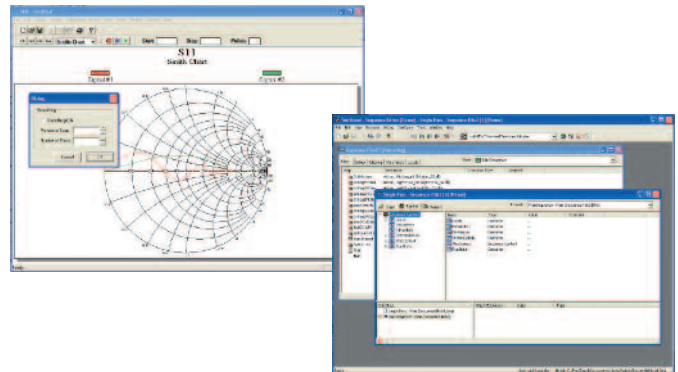
The AU7100 system can also be customized to include digitally modulated RF measurements such as EVM and ACP/ACPR measurements.

II. Software Description:

AU7100 provides an open software architecture that is designed to support today's growing volume of measurements in production environments and to allow for future process improvements, system expansion and system upgradeability. The software runs under Microsoft Windows 2000® and XP® operating systems on a PC workstation.

AU7100 also provides semi-automatic control software that will allow the user to configure and run the system in a semi-automatic mode. This mode is particularly useful when troubleshooting and debugging product designs or manufacturing test plans. The following semi-automatic control applets are provided:

- Switch Control
- Timing Configuration
- DC Supply Configuration
- Digital Control Configuration
- Analog Control Configuration
- Vector Network Analyzer Measurements
- Tuned Power Measurements
- Noise Figure Measurements
- System Accuracy Verification
- System Self Test



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