

2026

Q4 NEWSLETTER
MID-ATLANTIC EDITION

THE PROTEQ PULSE

*Your Quarterly Connection to the
Pulse of the Industry -*



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ProTEQ Contact Information

Need to reach us? Find our phone number, website, and a link to schedule a demo or request more information

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Dewetron: Advanced Power Analysis

Transform DEWETRON measurement systems into powerful, fully featured power analyzers. Analyze complex power systems with precise calculations, visualization and flexible data capabilities. Gain deeper insights with online and offline analysis across a wide range of power applications.

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Dewetron: DEWE3-PA8 High-End All-in-One Power Analysis

Discover the DEWE3-PA8, engineered for precise, high-performance power measurement and analysis. Combine power analysis and mixed-signal acquisition in one flexible, powerful system. Gain exceptional accuracy, high-speed sampling and versatile connectivity for demanding test applications.

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Teledyne LeCroy: High-Speed PCI Express Protocol Analysis

Explore Teledyne LeCroy's Summit family of PCIe protocol analyzers and exercisers. Built for powerful traffic capture, analysis and testing across PCIe, NVMe and CXL technologies. Featuring the Summit M616 with support for next-generation PCI Express 7.0.

07

Maury Microwave: Advanced RF & Microwave Device Characterization

ProTEQ is now the exclusive Maury Microwave representative for Device Characterization solutions across New England. Explore advanced impedance tuning, active load pull and automated VNA calibration technologies. Delivering greater speed, precision and repeatability for next-generation RF and semiconductor testing.

09

Maury Microwave: Advanced RF Signal Generation & Phase Noise Analysis

Explore Maury Microwave's high-performance HSX synthesizers and HA7162 phase noise analyzer series for advanced RF and microwave testing. Generate clean, stable signals up to 40 GHz and perform precise absolute, additive and real-time phase noise measurements. Engineered for exceptional spectral purity, measurement accuracy and repeatable performance across demanding applications.

11

Maury Microwave: High-Performance RF & Microwave Cable Assemblies

Explore Maury Microwave's Stability Series cables engineered for precision, flexibility and repeatable performance. Solutions for VNA, phase-critical, thermal vacuum and on-wafer measurement applications. Designed to deliver superior amplitude and phase stability across demanding test environments.

CONTACT INFORMATION





DEWETRON

POWER ANALYSIS

Transform your **DEWETRON** measurement device into a fully-featured power analyzer. This core feature of our **DEWE3-PA** series devices is also available for other devices, offering unmatched flexibility and capabilities.



CAPABILITIES

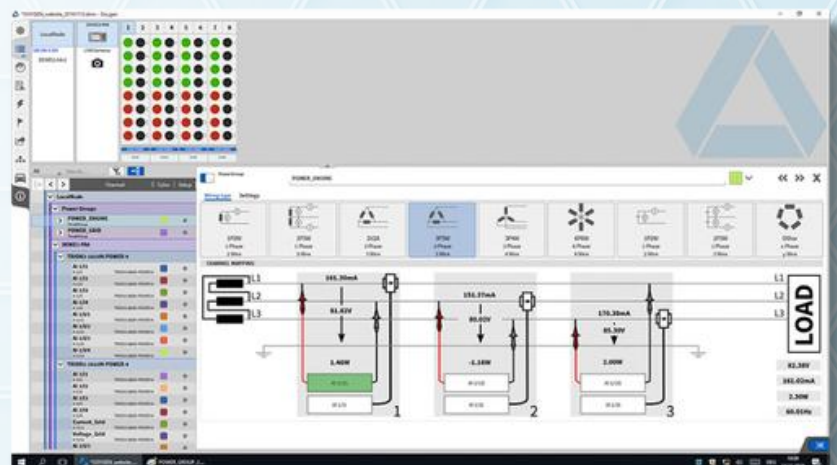
- **Phase power systems:** Analyze 1–9 phase systems (1P2W, 2V2A, 3P3W, 3P4W, 2x 3P3W etc.).
- **Power groups:** Summarize several power systems logically.
- **Frequency detection:** Automatic fundamental frequency detection for highest accuracy and secondary fallback sync source for fail safe operation, as well as fixed output rates supported.
- **Accurate calculations:** Gapless cycle-by-cycle calculations with no blind spots.
- **Raw data visualization and storage**
- **Various visualization options with dedicated power instruments**
- **Online & offline power analysis**



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DEWE3-PA8

HIGH-END ALL-IN-ONE POWER ANALYZER

Transform your **DEWETRON** measurement device into a fully-featured power analyzer.

This core feature of our **DEWE3-PA** series devices is also available for other devices, offering unmatched flexibility and capabilities.



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KEY FEATURES

- Up to 16 power phases
- 8 TRION(3) module slots
- 0.04 % basic power accuracy

INTERFACE

- Up to 10 MS/s per channel
- Mixed signal acquisition
- Sync, CAN, DIOs, counter



Request a
Demo

GOOD TO KNOW

- Signal inputs at the rear
- Typ. 1 GB/s gapless storing rate
- Redundant, integrated current transducer supply





TELEDYNE LECROY

Everywhere you look™

SUMMIT M616 PROTOCOL ANALYZER / EXERCISER

High Speed PCIe, NVMe, and CXL Analysis

The Summit M616 is Teledyne LeCroy's latest generation of protocol analyzers targeted at high speed PCI Express 6.0 and CXL 3.x I/O-based applications such as server, workstation, desktop, graphics, storage, AI, and network card applications.

NOW
PCI EXPRESS
7.0 READY!



WATCH NOW

PCIe 6.0, NVMe, CXL
TECHNOLOGY

Up to x16
LINK WIDTHS

Up to x16
DATA RATES



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FRONTLINE X700 WIRELESS PROTOCOL ANALYZER

Most Advanced Test Solution for Bluetooth in Higher Frequency Bands



New flagship analyzer with full, simultaneous capture of 880 MHz of Bluetooth bandwidth across both the 2.4 GHz and 5/6 GHz bands.

Key Features:

- Simplifies next generation bluetooth validation across all frequency bands
- Sees and solves interference faster
- Eliminates visibility gaps in multi protocol wireless systems
- Exposes hidden issues across RF, host, and audio domains
- Eliminates guesswork in challenging RF environments
- Accelerates automated testing with full API control

Bluetooth (2.4/5/6 GHz)
TECHNOLOGY

Wi-Fi MLO (Triband)
TECHNOLOGY

802.15.4
TECHNOLOGY



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PCI EXPRESS (PCIe)

Summit Protocol Analyzers and Exercisers

The Summit Family of PCI Express and CXL Protocol analyzers, exercisers and test platforms provide best in class traffic capture, analysis, and manipulation for testing link operations and protocols. These products are designed for address today's high-speed I/O, storage and communications network problems and compliments other tools offering industry leading visibility and utility.



Summit M64i



Summit M616



Summit T516



Summit Z516



Summit T54



Summit T48



Summit Z58



Summit T34



EXPANDING OUR MAURY MICROWAVE PARTNERSHIP IN THE MID-ATLANTIC

We're excited to share that **ProTEQ Solutions** is now the **exclusive Maury Microwave representative for Device Characterization solutions in the Mid-Atlantic region.**

Maury Microwave is a global leader in RF measurement, load pull, and device characterization technologies used by engineers developing next-generation semiconductor and RF devices. We look forward to supporting customers across the region with Maury's industry-leading solutions and expert technical guidance.



AUTOMATED IMPEDANCE TUNER SERIES

Maury Microwave's XT-Series and NT-Series tuners provide precise, repeatable impedance control for advanced RF testing. The XT-Series supports high-speed device characterization and VSWR sweeps, while the NT-Series is optimized for on-wafer measurements with maximum VSWR performance.

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FREQUENCY RANGE

225 MHz to 330 GHz

MATCHING RANGE

up to 200:1

POWER HANDLING

up to 250W
CW/2.5W PEP

REPEATABILITY

up to -50dB

HARMONIC CONTROL

up to 3Fo

FEATURES AND BENEFITS

- Up to X2 faster mechanical movement vs prev. generation
- Up to -50 dB repeatability
- High Gamma (up to 200:1)
- High power handling (250W CW/2.5kW PEP)
- New tuner characterization validation process using MTune3
- New non-harmonically related multi-frequency impedance tuning using MTune3

MT1000-MT2000 SERIES ACTIVE LOAD PULL SYSTEM

The Maury MT1000 and MT2000 combine multiple RF test instruments into a single, turnkey load pull solution. Designed for speed, accuracy, and wideband impedance control, they streamline device characterization and nonlinear model validation.



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FEATURES AND BENEFITS

- Single-tone, Pulsed, and Time-Domain NVNA measurements
- Up to 1000 impedance/power states per minute
- Maximum Smith chart coverage
- Modulation Bandwidth up to 2000 MHz
- Using ACPR and EVM measurement data in the design of wideband PA circuits
- Improve PA linearity based on controlled baseband terminations
- Reduce time-to-market due to faster measurement speeds
- Compatible with 1-port and 2-port DUTs

FREQUENCY RANGE

1 MHz to 67GHz

BANDWIDTH

100 MHz to 2000 MHz

DYNAMIC RANGE

80 dB

MEASUREMENT SPEED

100/1000 pts /s

HARMONIC CONTROL

Fo/2Fo/3Fo

UCAL - UNIVERSAL VNA CALIBRATION MODULES AUTOMATED CALIBRATION KIT SERIES



Maury Microwave's uCal Universal VNA Calibration Modules simplify and accelerate VNA calibration by automating the connection of calibration standards. With integrated standards, onboard characterization data, and electronic switching, uCal reduces human error while delivering fast, accurate, and repeatable calibration results.



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FEATURES AND BENEFITS

- **Speed:** Calibration is faster since there is no need to manually connect and disconnect standards.
- **Accuracy:** Eliminates errors caused by manual handling, such as connector inconsistencies and improper torquing.
- **Ease of Use:** Minimal user interaction is required, making calibration simpler and more accessible.
- **Reliability:** Reduces wear and tear on VNA ports and connectors, prolonging their lifespan.
- **Consistency:** Provides repeatable results across multiple calibration sessions and users.

FREQUENCY RANGE

50 MHz to 18 GHz,
26.5 GHz, or 40 GHz

CONTROL INTERFACE

USB (direct VNA support
or via Maury Insight)

CONNECTOR TYPES

2.92mm, 3.5mm, 7mm,
and Type N



HSX SERIES

SINGLE AND MULTI-CHANNEL SYNTHESIZERS

The **HSX9100 Series** is a compact, high-performance multi-channel CW signal source delivering exceptional phase noise and spectral purity. Its 1U chassis supports up to four independently tunable channels with frequency options up to 40 GHz and a dynamic range of +20 dBm to -110 dBm. A unique multi-loop architecture ensures outstanding frequency accuracy, channel-to-channel stability, and phase coherency.

3 GHz Phase Noise

-133 dBc/Hz (10 kHz offset), typical

6 GHz Phase Noise

-127 dBc/Hz (10 kHz offset), typical

12 GHz Phase Noise

-121 dBc/Hz (10 kHz offset), typical

20 GHz Phase Noise

-116 dBc/Hz (10 kHz offset), typical

40 GHz Phase Noise

-110 dBc/Hz (10 kHz offset), typical

FEATURES AND BENEFITS

- **Fully Independent Channels:** Each RF output is driven by a separate, internally loaded synthesizer/attenuator module. Up to 4 independently tunable synthesizers can be specified per 1U chassis allowing for the highest integrated channel density available in its class.
- **Phase Coherent Channels:** HSX9100 Series synthesizers offer the performance benefits of a proprietary multi-loop architecture with a centralized reference distribution subsystem, which maintains a tight phase coherent relationship across all integrated channels.
- **The Ultimate In Channel-to-channel Stability:** Different from traditional PLL-based synthesizers, the proprietary multi-loop architecture creates precisely synthesized signals that exhibit both instantaneous and long-term stability. Temperature variations between the channels remain the only contribution to drift. The thermally optimized, fan-less chassis was specifically developed for maintaining the lowest possible thermal gradients from channel-to-channel. Channel specific thermal monitoring is available for tracking the relative channel temperature of each loaded synthesizer module.



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PHASE NOISE ANALYZERS

MEASURED NOISE FLOORS, UNPARALLELED ANALOG PERFORMANCE, REPEATABLE DATA

HA7162D SERIES

DUT INPUT	MEASUREMENT BANDWIDTH
10 MHz-26GHz (optional to 40 GHz)	0.1Hz to 100MHz offsets



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Features & Benefits

- Automated Absolute and Additive (Residual) Measurements
- Real Time Cross Correlation
- Only analyzer available that allows actual noise floor measurement

HA7163A SERIES

Features & Benefits

- Real-Time Full Bandwidth Data Acquisition
- Versatile – Reconfigurable Front End
- Measure: PM / AM / Baseband / Spurious / Jitter
- Isolated AM / PM
- Automated Residual Measurements
- Outstanding Accuracy



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DUT INPUT FREQUENCY RANGE: ABSOLUTE MEASUREMENTS	DUT INPUT FREQUENCY RANGE: RESIDUAL (ADDITIVE) MEASUREMENTS	DUT INPUT FREQUENCY RANGE: AM MEASUREMENTS	DUT INPUT FREQUENCY RANGE: EXTERNAL LO PM MEASUREMENTS	DUT INPUT FREQUENCY RANGE: BASEBAND MEASUREMENTS
10 MHz to 50 GHz	1 GHz to 50 GHz (can be reconfigured to measure to 10MHz DUT input)	10 MHz to 50 GHz	1 GHz to 50 GHz	0.1 Hz to 100 MHz

HA7162C SERIES

DUT INPUT	MEASUREMENT BANDWIDTH
10MHz-6GHz	0.1Hz to 40MHz offsets



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Features & Benefits

- Automated Absolute and Additive (Residual) Measurements
- Real Time Cross Correlation
- Only analyzer available that allows actual noise floor measurement



StabilityFlex™ Low Profile Cables Series

StabilityFlex™ cable assemblies combine high flexibility and stable performance with flexure for reliable daily-use lab and general testing applications.

Features & Benefits

- DC to 50 GHz
- 2.4mm, 2.92mm, SMA, and Type N connectors
- Low insertion loss
- Amplitude and phase stability with flexure
- High mating-cycle durability
- Color-coded connectors reduce connection errors
- Available in standard and low-profile configurations
- Ultra-flexible

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APPLICATIONS:

- General Lab Test

StabilityPlus™ Cables Series

StabilityPlus™ cable assemblies are designed specifically for amplitude- and phase-stable applications, providing excellent measurement repeatability after cable flexure.

Features & Benefits

- DC to 110 GHz
- 1mm, 1.85mm, 2.4mm, 2.92mm, 3.5mm, 7mm, SMA, TNCA, and Type N connectors
- Amplitude and phase stability with flexure
- Durable, ruggedized, and crush-resistant
- Phase stability vs. temperature: 1500 PPM for 1mm connectors <4°/m/GHz (-55°C to +105°C) for all others
- Flexible for easy installation
- Color-coded connectors reduce connection errors

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APPLICATIONS:

- VNA measurements & phase-critical

StabilityPlus™ Low Profile Cables Series

StabilityPlus™ Low Profile cable assemblies deliver stable electrical performance in a lightweight, flexible, low-profile design for high-density and fragile test applications.

Features & Benefits

- DC to 67 GHz
- 1.85mm, 2.4mm, 2.92mm, 3.5mm, 7mm, SMA, TNCA, and Type N connectors
- Lightweight for use with smaller DUTs
- Stable and repeatable electrical performance
- Small profile for tight spacing requirements
- Color-coded connectors reduce connection errors

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APPLICATIONS:

- VNA measurements & phase-critical

EXPLORE MAURY'S BEST IN CLASS RANGE OF CABLE ASSEMBLIES

StabilityVNA™ Cables Series

StabilityVNA™ cable assemblies deliver superior amplitude and phase stability for improved measurement accuracy, reduced uncertainty, and greater confidence in VNA measurements.

Features & Benefits

- DC to 67 GHz
- 1.85mm, 2.4mm, 2.92mm, 3.5mm, and 7mm connectors
- Color-coded connectors
- Superior flexibility and anti-skid band
- Enhanced crush resistance and flex life

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APPLICATIONS:

- VNA measurements, phase-critical, & metrology

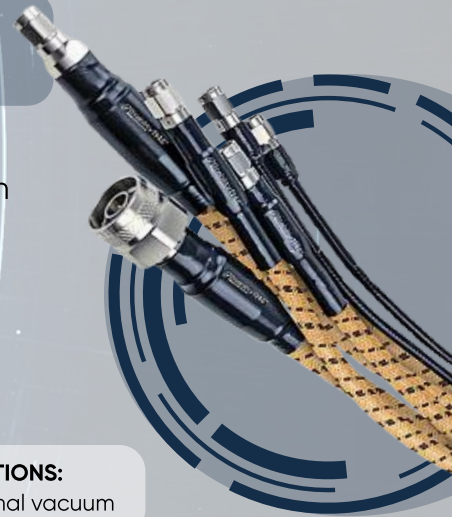
StabilityTVAC™ Cable Series

StabilityTVAC™ cable assemblies are purpose-built for thermal vacuum testing, employing vented connectors for rapid pressurization/depressurization cycles and undergoing thermal conditioning to relieve mechanical stresses.

Features & Benefits

- DC to 40 GHz
- 2.92mm, SMA, TNC, TNCA, and Type N connectors
- Low outgassing
- Vented connectors

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APPLICATIONS:

- Thermal vacuum

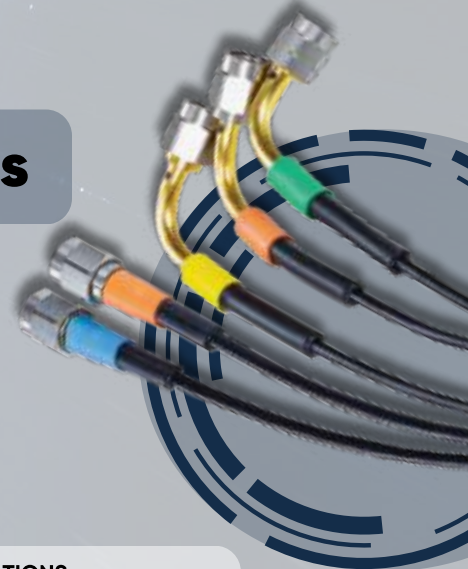
StabilityWafer™ Cables Series

StabilityWafer™ cable assemblies enable accurate, repeatable on-wafer measurements with a lightweight, flexible design that eliminates pressure on the wafer probes.

Features & Benefits

- DC to 67 GHz
- 1.84mm, 2.4mm, 2.92mm, and 3.5mm connectors
- Flexible for easy installation
- Small profile for tight spacing requirements
- Color-coded connectors

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APPLICATIONS:

- On-wafer measurements

"BRIDGING INNOVATION AND INDUSTRY"



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