

2026

Q3 NEWSLETTER
NEW ENGLAND EDITION

THE PROTEQ PULSE

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



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We're excited to welcome TMS Test Services as our newest partner! Learn how their cost-effective RF semiconductor characterization services and manual and semi-automated prober rentals help engineers accelerate testing while reducing equipment costs.

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Discover Atrenne's VPX systems and VME chassis and backplanes designed for reliable, high-performance embedded computing applications. We're excited to support customers with these advanced solutions and dedicated regional expertise.

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Oscilloquartz - New Partnership

We're proud to welcome Oscilloquartz as a new partner! Discover their industry-leading timing, synchronization, and PNT assurance solutions designed to deliver the precision and resilience critical to today's communications, aerospace, defense, and infrastructure applications.

CONTACT INFORMATION



Anritsu

THE WORLD'S FIRST AI-ENABLED VNA



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REDEFINING NETWORK ANALYSIS

Tensor VNA sets a new benchmark in vector network analysis with its revolutionary source-per-port architecture, integrated AI intelligence, and exceptional power handling. Designed for next-generation RF and mmWave applications, Tensor combines class-leading sweep speed, output power, and IF bandwidth with true mmWave freedom—no external test sets required.

The result: faster insights, simplified workflows, and unmatched performance for production, aerospace & defense, and advanced active device characterization.

SMARTER TESTING WITH BUILT-IN AI

Tensor introduces Anritsu Artificial Intelligence (AAI) to transform how engineers approach measurement:

- Automated test setup for complex measurements
- SCPI command generation to streamline programming
- Guided troubleshooting to minimize downtime

Whether you're a seasoned expert or new to RF testing, Tensor's AI assistance accelerates setup and ensures reliable results. For defense applications, offline AI operation guarantees secure environments without connectivity risks.

Future-ready: Planned cloud-based AI will further expand automation, analytics, and collaborative workflows.



KEY FEATURES

- True source-per-port architecture
- Exceptional output power & input power handling
- Ultra-fast measurement performance
- Anritsu Integrated AI (AAI)
- Modern user experience
- Industry-leading dynamic range
- Native mmWave capability
- Advanced active device support
- Integrated hardware enhancements

APPLICATIONS

- Amplifier Characterization
- Mixer Measurements
- Antenna Testing
- Multiport & Signal Integrity
- mmWave Testing



NOW AVAILABLE FOR
PRE-ORDER

AMETEK[®]
PROGRAMMABLE POWER

ASTERION DC HALF-RACK SERIES

HIGH PERFORMANCE PROGRAMMABLE DC POWER SUPPLY



The new Sorensen Asterion DC Half-Rack Series delivers the trusted performance of the Asterion platform in a compact, cost-effective 1U half-rack design. Offering up to 1.7 kW of programmable DC power, it is available in Fixed Range models for defined requirements and Autoranging models for greater flexibility at full power.

With high power density, an intuitive touchscreen, and extensive connectivity options, the Asterion DC Half-Rack Series is an ideal solution for engineers seeking reliable, programmable DC power in a smaller footprint.

COMPACT

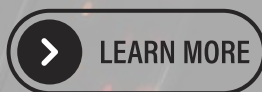
HIGH-PERFORMANCE

HIGH POWER: 1.7kW

INTUITIVE TOUCHSCREEN FRONT PANEL

FIXED RANGE OR AUTORANGING OUTPUT OPTIONS

VOLTAGE: 40 V, 60 V, 80 V, 100 V, 150 V, 200 V, 300 V, 400 V & 600 V





SOLID STATE AMPLIFIERS TO 98 GHZ



Maury Microwave's Solid-State Amplifiers deliver reliable, high-performance power up to 98 GHz for a wide range of advanced applications. Engineered for precision and built to meet the demands of today's RF environments. These solid-state amplifiers are the trusted solution for test, measurement, and communication systems.

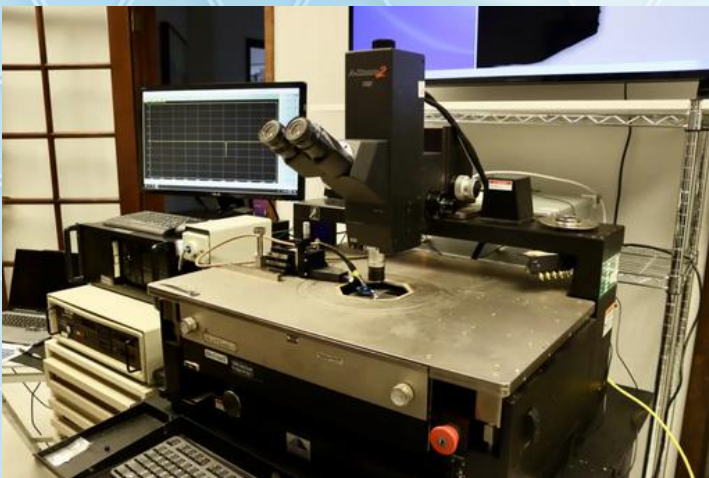
- Equipped with state-of-the-art GaN amplifiers for robust, efficient signal transmission
- Designed with wideband frequency coverage to power modern communication and defense systems
- Maintains strong, continuous power output across all operating frequencies
- Engineered for high linearity to support advanced wideband communication systems
- Integrated protection for enhanced reliability and hardware safety
- Flexible variable gain control for precise signal tuning
- High-resolution display provides clear, real-time amplifier status at a glance
- Power levels up to 1kW



TMS Test Services helps engineers streamline RF semiconductor validation through specialized test and support services. Their Phoenix, Arizona laboratory offers comprehensive on-wafer RF characterization over frequency, temperature, and bias for accurate device performance evaluation. **TMS** also provides probe station and on-wafer measurement training, load pull and tuner maintenance, and prober rental services, enabling customers to expand testing capabilities, improve measurement accuracy, and accelerate development without the capital investment of additional equipment.

PROBER RENTALS

TMS has a variety of Manual and semi-automated probe stations available for rent



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AVAILABLE RESOURCES

- Four 8" semi-automated probing stations
- One 6" semi-automated probing station
- One 9k probing station with laser cutting capability
- A benchtop RP-1 RF probing station
- Assorted probing solutions up to 40GHz
- Assorted test equipment available from Anritsu, Formfactor, LeCroy, Maury and others

COMPONENT CHARACTERIZATION

TMS Test Services provides engineers with a cost-effective solution for RF semiconductor characterization.

LAB SETUP

- Active and passive VNA measurements to 110 GHz
- 300mm full automated wafer prober
- 300mm, 10kV prober (tesla)
- Semi-automated 8- and 6-inch prober with thermal (-40 to 200 deg C)
- 6-inch manual probers
- Surface metrology Equipment
- VSG, VSA, SMU, OSA, power analyzer
- Semiconductor power device analyzers
- Die attach equipment
- Electron microscopes
- Access to a wide variety of test equipment to support your test plan
- Customer Lockable storage



MEASUREMENT CAPABILITIES

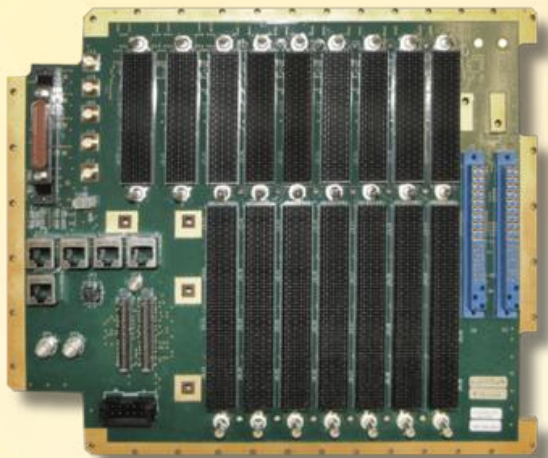
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- DC Screening (DCIV)
- On Wafer, On PCB, or Connectorized
- Fixture development
- S parameter measurements
- Device characterization
- Design validation
- Model characterization/ validation
- Assist with on-wafer calibration structures
- Packaged Fixture design
- Software automation tools- Z tools
- DCIV
- S parameter toolkit
- Power Load Pull
- Fixture design for packaged devices
- Fundamental source, second harmonic load, CW and pulsed
- On Wafer Load Pull- 67 GHz
- Source: fundamental, second and third harmonic
- Load: fundamental, second and third harmonic

Atrenne VPX systems deliver exceptional processing power, high-speed connectivity, and advanced modularity in a rugged, scalable platform. Built for demanding environments, they enable faster data processing and reliable performance for mission-critical aerospace, defense, and high-technology applications.

11-Slot 3U – 6U OpenVPX Backplane



ATR hybrid 3U/6U OpenVPX backplane designed and manufactured for airborne applications.

Specifications:

- Size: 12.500" x 10.311" x 0.195"
- Hybrid 11-slot 3U – 6U OpenVPX
- Backplane with mixed pitch
 - (7) 6U OpenVPX 0.85" pitch slots
 - (2) 3U OpenVPX 1.0" pitch slots
 - (2) 6U 0.8" pitch power supply slots
- Cabled I/O
- Interconnect Topology:
 - Custom mesh style topology
 - PCIe, GigE, SATA fabrics
- I/O Connectivity
 - I/O signal conditioning
 - (8) I/O connectors with application-specific connectivity
- -40 to +55°C operating
- Altitude – 50kft operating

Atrenne VME chassis and backplanes deliver reliable performance and rugged design for demanding embedded computing environments. Engineered for durability and seamless integration, these solutions support high-speed data transfer, system flexibility, and long-term reliability across aerospace, defense, and industrial applications.

Specifications:

- Component Type: Chassis / Enclosures
- Chassis Type: Rackmount
- Chassis Cooling: Forced Air
- Module Cooling: Air
- If Module Air, CFM per slot: 12
- Number of Slots (0.8" pitch): 10
- Operating Temp. Min. C: -32
- Operating Temp. Max. C: 52
- Input 220 VAC: 1

10U VME64X Ground Mobile Rugged Enclosure



10U Ground Mobile Rugged Enclosure is a 19" rackmount chassis with a 10-slot VME64x backplane.



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MASTERING TIME. DELIVERING TRUST

TIMING, SYNCHRONIZATION & PNT SOLUTIONS FOR A RESILIENT WORLD

TIMING SOLUTIONS



Atomic Clocks



Time & Frequency
Reference



Holdover &
Stability



Time Distribution



PNT ASSURANCE



Jamming
Detection &
Mitigation



Spoofing
Detection &
Mitigation



Interface
Monitoring &
Analytics



Trust &
Integrity
Monitoring

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SYNCHRONIZATION SOLUTIONS



PTP (IEEE 1588)
Grandmaster &
Boundary Clocks



SyncE



NTP



Time as a Service
(TaaS) & Timing
over Packet



"BRIDGING INNOVATION AND INDUSTRY"



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