

RF & MICROWAVE TEST SOLUTIONS



- Boonton**
- RF/Peak Power Meters to 40GHz, Fast Rise Times
 - RF/Peak USB Power Sensors
 - Signal Generators up to 18GHz

- Noisecom**
- Noise Components & Instruments
 - Programmable Noise Generators up to 40GHz

- Holzworth**
- Phase Noise Analyzers up to 50GHz
 - Multi-Channel, Phase Coherent RF Sources
 - Ultra-Low Phase Noise Synthesizers & Modules

- dBm**
- Satellite Link Emulator & Modeling Software
 - 600 MHz Of Instantaneous Bandwidth Per Channel (Multi-Channel)

- Cable Assemblies & Connectors**
- High Stability RF Cables up to 110GHz
 - High Performance VNA Cables up to 67GHz
 - StabilityWafer™ on-wafer probing cable assemblies
 - Coaxial & Waveguide adapters and attenuators

- Device Characterization**
- Active Load Pull Tuners Enabling Real-time Load Control
 - Automated Tuning for Streamlined Repeatable Measurements
 - Compatible with 1-port and 2-port DUTs

- Impedance Tuners**
- Active Load Pull
 - Active Tuners
 - Automated & Cryogenic Tuners

- Calibration**
- VNA Calibration & Verification Kits
 - VNA Calibration Standards
 - Universal VNA Calibration Modules (uCal) to 26.5GHz

- RF Amps (CW and Pulsed)**
- Solid State Frequency Range 0.4GHz to 98GHz
 - Power Range 1W-10KW
 - Wideband Frequency Coverage for Modern Applications
 - High Continuous Power Across the Band
 - Custom Solutions Available



- Broadband Vector Network Analyzers to 220GHz; 1.1THz With Extenders
- RF/Microwave Synthesized Signal Generators up to 70GHz
- 2 & 4-Port Compact VNA's up to 43.5GHz
- Hand-Held Spectrum Analyzers
- RF Power Meters up to 65GHz
- BERT – Bit Error Rate Tester
- mmWave Power Analyzer up to 110GHz



- Broadband Bias Tees up to 110GHz
- Broadband Baluns
- Broadband Pick off Tees
- Signal Path Analyzer
- DC Blocks



- Frequency Up/Down Converters – 2-100 GHz
- Frequency Agile Synthesizers – DC-110 GHz
- Low Noise & Power Amplifiers to 110 GHz
- Transceivers, Antenna Systems
- Integrated Assemblies
- Target Generation Modules
- RF Components

ENVIRONMENTAL & VIBRATION TEST SOLUTIONS



- Salt Spray Chambers
- Cyclic Corrosion Chambers
- Floor SO2 Gas Dosing Test Chambers
- Tabletop SO2 Gas Dosing Test Chambers



- IMV America, Inc.**
- Vibration Electrodynamic Shakers
 - Turn-Key Solutions
 - Shaker & Amplifier Service & Repair
 - Slip Tables, Head Expanders
 - Amplifiers & Controllers
 - Training



- Reach-In Environmental Test Chambers
- Thermal Shock Chambers
- Walk-In Environmental Chambers
- Altitude Test Chambers
- Salt Spray
- Custom Or Modified Chambers
- Dust Chambers

EMI/EMC TEST SOLUTIONS



- Amplifiers – Solid State, Pulsed, TWT, CW
- Automotive Electrical Disturbances
- GTEM –TEM Cells
- CDN's, LISN, ESD GUNS
- Transient Generators (Surge/Burst)
- Harmonics, Flicker, Ring Wave



- RF & Microwave Power Amplifiers
- Solid State From 10Hz to 18GHz
- TWT's From 1GHz to 50GHz
- Radiated & Conducted Immunity Test Systems
- Communication Testing Equipment
- Magnetic Field Generators
- Electrostatic Discharge Systems



- High Resolution EMC Scanners
- X/Y/Z Axis Near Field Probe Automation
- Microwave Frequency Counters/Analyzers
- High Voltage Linear Amplifiers
- High Voltage/High Current Linear Amps
- Frequency References



- Modular Shielded Enclosures
- Adaptable Anechoic Chambers
- Turntables, Doors, Vents, Panels, Feeds
- Design, Fabrication & Installation
- Screen Rooms
- Service – All Makes Of EMI/EMC Chambers

PROBE STATIONS RF/DC/OPTICAL



- 150, 200 & 300mm Wafer Probing Systems
- RF & Microwave - DC Probing Systems
- Manual, Semi-Auto, Fully-Auto
- Autonomous RF and DC Probing Systems
- Probing under Temperature, 1/f Low Noise
- Silicon Photonics Probe Solutions
- High Voltage, High Power Probe Solutions
- mmWave Probing Solutions

SWITCHING & DATA ACQUISITION



- Power Analyzers, Portable
- Real-Time Data Acquisition Systems
- All-In-One Systems
- Signal Conditioning
- Data Recording
- Components & Sensors



- Functional Test Systems
- LXI, PXIe, VXI Platforms
- PXIe/LXI, High Density, Rugged Data Acquisition
- Full-featured, Turn-Key Data Acquisition Software
- Strain, Thermocouple, And Voltage Measurement
- RF/Microwave Switching & Integration

AC/DC POWER / LOADS & AUTOMATED TEST



- Rugged UPS Systems
- Power Conditioners
- Frequency Converters
- Power Distribution Units
- External Battery Modules & Chargers



- Test System Design & Build To Print Services
- RF & Microwave, Digital & Analog
- Pre-Configured Core Test Systems
- Frequency Up & Down Converters
- Cable Test Instruments
- ATE Development, Service Provider
- Delay Line Solutions



- Wire, Cable & Harness Testers
- Rack and Portable AUTOMEG Testers
- Functional Cable Test systems
- RTS Real Time Scanning
- Bond, Loop & Joint Resistance Testing



- Bi-Directional, Regenerative, Programmable DC Power Systems
- Grid Simulation Systems up to 15kVA to 1.08MVA
- AC/DC Programmable Sources; Bench, Rack Mount, High Power
- AC/DC Programmable Loads, Medium - High Power
- Battery Cyclers, Battery Charge Systems
- Inverter Test Solutions
- Solar Array Simulators & Solar Power Simulators
- Water Cooled DC Sources & Loads

PROTOCOL ANALYZERS



- PCI Express up to 6.0 & CXL 3.x
- High-Speed Ethernet: 10/40G; 25/50/100G; 100/200/400/800G
- Storage Tech; SATA, SAS, NVMe-oF & FibreChannel
- USB 2.0, 3.x, 4.x, Thunderbolt
- quantumdata - HDMI/Display/Port/Video

EMBEDDED TEST SOLUTIONS



- Defense and Aerospace Mission Critical
- OpenVPX - High Reliability and performance Backplanes/Chassis, multiple slots, VITA 67.1 and VITA 67.2 I/O Connectivity
- VME/VME64x - Rugged SIGINT Chassis, 10U Ground Mobile Rugged Enclosures
- CompactPCI - 3U Ground Mobile CompactPCI Chassis, CompactPCI Backplane
- Build to Print/Specs Available

OSCILLOSCOPES



- High-Definition Oscilloscopes up to 65GHz
- Low Profile ATE Scopes
- Motor Drive Analyzers - Mixed Signal
- Digitizers & Waveform Generators
- High-Speed Interconnect Analyzers/TDR up to 40GHz

RENTAL/USED EQUIPMENT / CALIBRATION SERVICES / LEASING



- All Major Brands - Current Products
- Same-Day Shipping, Extended Warranties
- Calibration Services

- Satisfaction Guaranteed
- Flexible Rental Terms And Financing
- ANSI/NCCL Z540-1 Compliant Calibration Lab



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