

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

Holworth

- 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



- Vibration Electrodynamical 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



- Shaker Repair and Maintenance for all Makes and Models
- Preventive Maintenance
- Coil Rewinding
- Shaker Parts and Replacement Amplifiers

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



- 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



- On Wafer RF Characterization over Frequency, Temperature, and Bias
- Probe Station/On Wafer Training
- Load Pull/Tuner Maintenance
- Prober Rentals



- 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/NCSL Z540-1 Compliant Calibration Lab

TIMING / GPS / PNT



- Cesium Clocks
- PTP Grandmasters and NTP Server Clocks
- Ruggedized Time Servers
- GNSS and LEO Clocks
- M-Code Mission Timing & Synchronization
- Embedded Timing Solutions



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