



**A Professional Manufacturers Representative Company**

**ProTEQ Solutions**

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**ProTEQSolutions.com**

**RF & MICROWAVE TEST SOLUTIONS**



- ❖ Broadband Vector Network Analyzers To 220GHz; 1.1THz With Extenders
- ❖ RF Signal Generators Up To 70GHz
- ❖ 2 & 4-Port Compact VNA's Up To 43.5GHz
- ❖ Hand-Held Spectrum Analyzers
- ❖ RF Power Meters Up To 50GHz
- ❖ BERT – Bit Error Rate Tester
- ❖ mmWave Power Analyzer Up To 110GHz



- ❖ RF/Peak Power Meters To 40GHz, Fast Rise Times
- ❖ RF/Peak USB Power Sensors
- ❖ Signal Generators Up To 18GHz
- ❖ RF Volt Meters



- ❖ Noise Components & Instruments
- ❖ Programmable Noise Generators Up To 40GHz
- ❖ Low Voltage Surface Mount Noise source
- ❖ Calibrated Sources/ATE



- ❖ Phase Noise Analyzers Up To 50GHz
- ❖ Phase Shifters And Detectors
- ❖ Multi-Channel, Phase Coherent RF Sources
- ❖ Ultra-Low Phase Noise Synthesizers & Modules



- ❖ Satellite Link Emulator & Modeling Software
- ❖ 600 MHz Of Instantaneous Bandwidth Per Channel
- ❖ Timing Synchronization Up To 16 Channels
- ❖ Payload Emulation
- ❖ Static And Dynamic Link Emulation



- ❖ Broadband Bias Tees
- ❖ Broadband Baluns
- ❖ Broadband Pick off Tees
- ❖ Impedance Analyzer –IPC241A
- ❖ Signal Path Analyzer
- ❖ DC Blocks



- ❖ Fundamental, Harmonic & Active Tuners
- ❖ Pulsed IV/RF Characterization System
- ❖ Compact And Behavioral Modeling
- ❖ 2-67GHz Ultra-Wideband Tuners With On-Wafer Noise Measurement Modules
- ❖ DLP Active & Rapid VT Modulated Load Pull

**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



- ❖ 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

**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

**ENVIRONMENTAL & VIBRATION**



- ❖ 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

**TIMING / GPS / PNT**



- ❖ Time & Frequency Reference Systems
- ❖ M-Code Receivers
- ❖ Low-SWaP Rugged PNT
- ❖ GPS/GNSS Advanced Simulation
- ❖ Rugged NTP Time Servers
- ❖ Inertial Navigation Systems
- ❖ GPS Jamming & Spoofing Protection



- ❖ High Speed Avionics Network Test & Simulation
- ❖ MIL-STD-1553/ARINC 429/ARINC 664 Solutions
- ❖ 1G To 100G Ethernet & Fibre Channel Products
- ❖ Arbitrary Waveform Generator, PXI, LXI VXI
- ❖ High Resolution Oscilloscopes In PXI, LXI, VXI
- ❖ Portable Data Loaders



- ❖ 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



- ❖ 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 And HARNESS Testers
- ❖ Rack and Portable AUTOMEQ Testers
- ❖ Functional Cable Test systems
- ❖ RTS Real Time Scanning
- ❖ Bond, Loop & Joint Resistance Testing



- ❖ 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

## 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

## BOUNDARY SCAN



- ❖ Boundary Scan Software & Hardware
- ❖ Turnkey JTAG Test Solutions
- ❖ ICT Test Fixture Design Services
- ❖ Advanced Connection Testing
- ❖ XJTAG Products Use IEEE.1149.X

## RENTAL / USED EQUIPMENT / CALIBRATION SERVICES / LEASING



- ❖ All Major Brands - Current Products
- ❖ Same-Day Shipping, Extended Warranties
- ❖ Satisfaction Guaranteed
- ❖ Flexible Rental Terms And Financing
- ❖ ANSI/NCSL Z540-1 Compliant Calibration Lab



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