



Tom McGunigal

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## Electronic Test Solutions



### Protocol Analyzers

Industry Leading Protocol Analyzers, Generators & Error Injection Tools For Next-Gen Bus Technologies

- + PCI Express Gen1-4 +NVMe
- + Ethernet; 10/40G & 25/50/100G (Including PAM-4)
- + Storage Tech; SATA, SAS, NVMe-oF & Fibre Channel
- + USB 2.0, 3.0, 3.1, PD, Thunderbolt
- + Video; HDMI, Display Port & HDCP
- + MIPI / Mobile; C-PHY, D-PHY, M-PHY

### Oscilloscopes

- + High Definition Oscilloscopes - 12 Bit ADC
- + Wide Bandwidth - (200 MHz - 1 GHz) or (1GHz - 4 GHz)
- + Sample Rates - From 10 GS/s to 40 GS/s
- + Frequency Ranges up to 30 GHz ; 4 and 8 Channels



- + Switch Cards; PXI, LXI, PCI, VXI
- + Matrix Cards
- + Multiplexers
- + Digital I/O
- + Programmable Resistors
- + RF Cards
- + Waveform Generators



- + Avionics Test & Simulation
- + MIL-STD-1553
- + ARINC 429, ARINC 664
- + Fibre Channel



- + Systems Integration
- + Fixture Design and Manufacturing
- + RF Design Platforms
- + PXIe Development Boards
- + Custom ATE System Design
- + Build-To-Print



- + Arbitrary Waveform Transceivers  
2 & 4 Channels, Up to 16 Gs/s, 16 Bit
- + Arbitrary Waveform Generators  
High Speed & Bandwidth
- + Pulse Pattern Generators
- + RF Signal Generators  
3,6 & 12 GHz, Fast Switching
- + PCI, PXI, Rack Mounted & Bench Top

## RF & Microwave Products



- + RF Signal Generators
- + Ultra Low Phase Noise Synthesizers
- + Phase Noise Analyzers



- + RF Power & Peak Power Meters
- + Peak Power Sensors



- + USB Power Meters
- + Noise Sources
- + Noise Generators



- + RF Amplifiers
- + Solid State & TWT to 40 GHz



- + RF & Microwave Sub Systems
- + RFIU's - System & Board Level
- + MiPXIe - COTS PXIe Development Boards
- + Modules - Custom LO, Amplifiers, Up/Down Converters



- + EW Threat Simulators
- + EW Radar Test Sets
- + Multi-Platform Target Generators



- + Precision Accessories to 65 GHz
- + Adapters, Connectors, Cables
- + Attenuators, Bias Tees, DC Blocks
- + Terminations, Directional Couplers
- + Power Splitters, Diplexers, Filters
- + Circulators & Isolators

## Power Supplies & PDU's



- + AC & DC Sources
- + AC & DC Regenerative
- + AC & DC Electronic Loads
- + Power Supply Test Systems
- + Test Management Software



- + DC Programmable Power
- + 600W and 1500W
- + Custom OEM Power Supplies



- + AC Power Conditioning
- + EMI/RFI Filters
- + Surge Protection
- + Sequenced Power Up
- + Orderly Shut Down

For the latest information on Products, Application Notes, Training and Local Seminars, please visit: [www.proteqsolutions.com](http://www.proteqsolutions.com)



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## EMI/EMC Test Solutions



- + Generators - Burst Signals, Ring Wave, Sine Wave & Surge
- + RF Amplifiers - 10 kHz to 40 GHz, up to 1100 Watts
- + Simulators - ESD, Mains Dips & Drops, Automotive Disturbances
- + Probes - Current Injection, Current Sensing, Near Field
- + Antennas - EMC/RF, CISPR/IEC/EN, FCC & MIL STD testing
- + Chambers - Reverberation Chambers, GTEM/TEM Cells
- + Components - Pre-Amplifiers, Attenuators, Directional Couplers
- + Software - RF Immunity & Emissions; EMI / EMC Compliance

## EMI/EMC Chambers



- + Shielded Enclosures - Design, Fabrication & Installation
- + Anechoic Chambers - Modular Shielded Enclosure System
- + Accessories - Turntables, Doors, Vents, Panels, Feed-throughs
- + Service - We service all makes of EMI/EMC chambers

## EMC Scanners



- + Patented Robotic EMC Scanners
- + Repeatable, High Resolution Scans
- + Multi-Scan Measurements
- + Near Field Probes & Probe Kits

## EMI/EMC Systems



- + Design and build complete custom systems for EMC/EMI test and measurement
- + EMC/EMI Test Systems
- + EMI Measurement Systems
- + EMC Software

## Environmental Test Solutions

### Chambers



- + Walk In / Drive In Chambers
- + Reach In Chambers
- + HALT/ HASS / Agree Chambers
- + Thermal Shock Chambers
- + Altitude Chambers
- + Environmental Stress Screening

### Shakers & Controllers



- + Shaker Tables
- + Slip Tables & Fixtures
- + Vibration Controllers
- + Head Expanders
- + Amplifiers & Replacement Amps

## Network Solutions



- + Satellite Link Emulators - SLE
- + Advanced Channel Emulators - ACE
- + Carrier to Noise Generators - CNG
- + Frequency Converters
- + Satellite Link Modeling Software



- + GPS/GNS Frequency & Time Receivers
- + Distribution Amplifiers
- + NTP - Network Time Servers
- + Auto Switches
- + Rubidium Standards



- + Time & Frequency Counter/Analyzers
- + Time & Frequency Standards
- + Frequency Distribution
- + GPS/GNSS Simulators



- + Ethernet PHY & POE Testing
- + Physical Layer Test and Analysis
- + Scalable Power Over Ethernet Test
- + PSE Conformance Testing
- + LLDP Analysis
- + Automated 802.3at PSE



- + Optical Test & Measurement Products
- + PXI Blades and Modular Systems
- + Mixed Signal Testing
- + Coherent Communications Test
- + Optical Pulse Analysis

## Rent, Purchase or Rent-To-Own



- + All Major Brands - Current Products
- + Same Day Shipping
- + Live Technical Support 24/7
- + Flexible Rental Terms and Financing
- + ANSI/NCSL Z540-1 Compliant Calibration Lab
- + Refurbished Legacy Products



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