



Share Guide Lead

DT Techsolutions Pvt Ltd.

ABOUT COMPANY

DT Techsolutions have many years of experience in setting up Test & Measurements Labs in Singapore, Malaysia and India and product supply & support of Test & Measurement software and hardware Analyzers/ tools/ kits. We are doing different kind of Network Analyzer equipment /Spectrum Analyzer/Development kits/Analyzer Module product supply to corporate, Educational Institutions, government, Engineering and defense sector.

DT Techsolutions offers a complete range of test and measurement equipment and softwares are designed to meet the rapidly changing market needs in educational and research Institutions, R&D, production, installation, monitoring where they learn how to choose and implement a form of assessment and interpret its results and also learn how to analyze and report test data.



Signal Hound makes affordable, high-performing RF test and measurement equipment



SPECTRUM ANALYZER

- SM435B - 100kHz to 43.5GHz RTSA
- SM435C - 100kHz to 43.5GHz RTSA
- SM200B - 100kHz to 20GHz RTSA
- SM200C - 100kHz to 20GHz RTSA
- SP145 - 100kHz to 14.5GHz RTSA
- BB60C/D - 9kHz to 6GHz RTSA
- SA124B - 1Hz to 12.4GHz Spectrum analyzer
- SA44B - 1Hz to 4.4GHz Spectrum analyzer

- Wide dynamic range:-158 to + 10 dBm
- Maximum Instantaneous bandwidth of 160MHz In SM series models
- SM200C/SM435C spectrum analyzer supports a 10GBE SFP+ port for fast, long-distance measurement with a PC using an optical cable maximum up to 80Km.
- For TSCM-Specific applications, the SM200C/SM435C is also compatible with software packages for ultimate affordable and powerful

VECTOR SIGNAL GENERATOR

- VSG200 - 100 kHz to 20 GHz Signal Generator
- VSG60A - 50MHz to 6GHz Signal generator
- VSG25A - 50MHz to 2.5GHz Signal generator



VSG200 20GHz with 40MHz real-time streaming bandwidth

- RF Frequency Range: 100 kHz to 20 GHz
- 40 MHz of real-time streaming bandwidth
- Amplitude Range: -55 dBm to +7 dBm, +10 dBm below 3 GHz
- Arbitrary I/Q sample rates from 12.5 kSPS to 51.2 MSPS
- Low phase noise LO



Supported modulation types by VSG200 & VSG60A:
LTE, 802.11a/n/ac/ax, Bluetooth LE, Custom OFDM, 16/64/256/1024-QAM, 2/4/8/16-PSK, 2/4/8/16- FSK, ASK, GMSK, AWGN channels, Ramp/Chirp, Stepped sweep

RF SWITCH

- The RF switch is an advanced single pole absorptive solid-state switch utilizing silicon-on-insulator (SOI) technology, designed for RF switching across eight ports up to 8 GHz
- Ideal for a variety of applications such as automated testing, multi-band sweeps, direction finding, the RFS8 is a reliable solution for high-speed RF switching.



VECTOR NETWORK ANALYZER

VNA400 – 40 GHz Vector Network Analyzer

- The VNA400 is a high-performance, USB-powered, 40 GHz, 2-port, vector network analyzer. It features a wide frequency range of 40 MHz to 40 GHz, sub-Hz resolution, +/- 1 ppm internal TCXO accuracy and a sweep speed of 2000 points per second at 30 kHz RBW.



VNA400 APPLICATIONS:

- Cable and antenna testing
- Return loss/VSWR measurements
- Filter tuning
- Insertion loss measurements
- Field use through Ka band
- Electrical length measurements
- Manufacturing Quality Control
- Field use through the Ka band



RF Power Meter



RF-Signal Generator



RF Switch Matrix 6GHz



Digital Attenuator 64DB



TRACKING GENERATOR

- TG44A & TG124A tracking generator for Scalar network measurement with additional directional coupler for reflection measurement
- The Signal Hound tracking generator is powered from the USB cable, eliminating the need for a separate power supply.



PHASE COHERENT RECEIVER

PCR4200 - The PCR4200 is a high-performance, 100 kHz to 20 GHz, four-channel, phase coherent receiver, streaming I/Q data over a vita 49 interface.



- Frequency Range: 100 kHz to 20 GHz
- Streams 40 MHz Bandwidth per Channel over 10 GbE SFP+
- Built-in Sub-Octave Preselectors from 45 MHz to 20 GHz
- Built-in Vector Signal Generator
- Noise Figure: 9 dB Typical for X band
- Calibrated I/Q Data
- Ultra-Low Phase Noise: -136 dBc/Hz 10 kHz Offset from
- 1 GHz Center Frequency
- Internal GPS
- 110 dB Dynamic Range

PCR APPLICATIONS:

- Emitter Detection and Geolocation
- Multi-Channel Transmitter Testing
- Simultaneous Multi-Band Spectrum Monitoring
- SIGINT/COMINT/ELINT
- Drone Detection
- MIMO Channel Testing

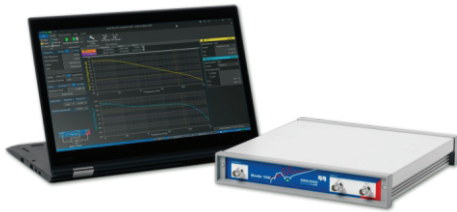
DS Instruments manufacture of compact and economical microwave test equipment without compromising quality.

- Signal Generators
- RF Power Meters
- RF Switches
- Tracking Generators
- Frequency Counters
- Digital Attenuators
- Hybrid Mixers
- Phase Shifters
- Wideband Amplifiers

40 GHz



Bode 100 & 500 are the most powerful analyzers from OMICRON Lab. Bode Analyzer is a multifunctional device, which is capable to perform as



- ✓ Vector Network Analyzer
- ✓ Impedance Analyzer
- ✓ Frequency Response Analyzer
- ✓ Gain/Phase Meter



BODE 100 SPECIFICATION:

- Frequency range :1 Hz to 50 MHz
- Signal level:-30 dBm to 13 dBm
- Connector type:BNC
- USB interface: USB 2.0 (USB-B)

BODE 500 SPECIFICATION:

- Frequency range:10 mHz* to 450 MHz
- Signal level:-50 dBm to 16 dBm
- Connector type : N type
- USB interface: USB-C, Ethernet



Product Highlights

Transmission / Reflection: High-precision S-parameter measurements for advanced RF components, filters, and high-frequency systems.

Impedance Analysis: Detailed impedance analysis of complex circuits with enhanced accuracy and wider bandwidth.

Resonance Detection: Identify high-Q resonance peaks in piezo elements, RFID, and NFC transponders

Stability Testing: To determine the stability of control loops in voltage regulators or switching power supplies, etc.



Products for MEASURING POWER

Test Equipment for Power Integrity, Stability, Impedance, PSRR, Step Load, EMI, PDN and Noise Measurement

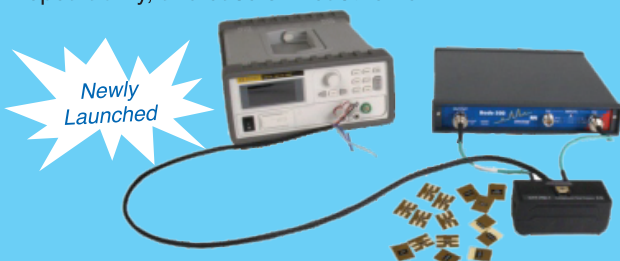


Application Measurements

- Inverters/SMPS/DC-DC converter Stability measurements
- Gain/Phase performance & loop stability analysis
- Impedance Measurement from mΩ to MΩ
- S-Parameter and Transfer Function
- Input/Output Impedance of Power Supplies/ Filters/Electronic circuits
- Non-invasive stability measurements of voltage regulator
- Power Supply Rejection Ratio (PSRR)
- EMI Filters and RF Chokes analysis
- Common mode/Differential mode choke measurements
- Battery impedance measurements
- Power inductor modelling

Component Test Fixture (CTF):

The CTF is delivered as a fully integrated, ready-to-use fixture—streamlined for accuracy, repeatability, and ease of measurement.



UC10 Universal 6-Way Calibrator:

Supports S/Z domain calibration for all VNAs
 Includes 1-Port: SHORT, OPEN, LOAD
 Includes THROUGH (also used for 2-port OPEN)
 Includes 2-Port ISO-SHORT & Includes 2-Port MATCH



(Typical) Data-based calibration file (aka Cal-Kit) for traditional VNA calibration



COPPER MOUNTAIN
TECHNOLOGIES

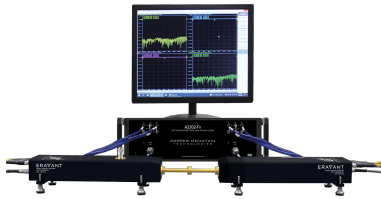
Exclusive Service Centre
@ Chennai

Copper Mountain Technologies (CMT) offers a wide range of USB Vector Network Analyzers (VNAs) covering 1-port, 2-port, and multi-port solutions from 1 MHz up to 330 GHz. Their VNAs are metrology-grade, portable, and software-driven, making them ideal for labs, production, and field testing

Lab-Grade Accuracy. Portable Power

mm Wave Solutions (up to 330 GHz)

- Extends Advance series VNA capability into millimetre-wave frequencies with external frequency extenders.
- Enables cutting-edge research in 5G, satellite, Material Characterization, Aerospace & Défense.

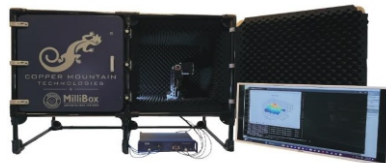


Advanced Series VNAs up to 22 GHz

- Advanced measurement features included standard.
- Offered all S-parameters measurements, 133 dB Dynamic
- Range 12 μ s/point Sweep Speed with License-Free Software Included



**Measure Performance
Where It Matters –
Over the Air**

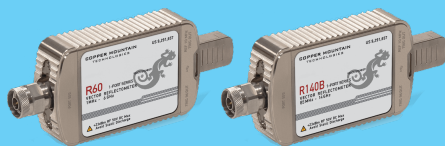


**OTA (Over the Air) Antenna Test System,
Measurement up to mm Wave**

- OTA solution bundles provide a low-cost, space-saving solution that is ideal for antenna testing applications across automotive radar, aerospace, satellite communication, and similar industries.

R series 1-Port USB VNAs (up to 14 GHz)

- Patented design connects directly to DUT without test cables.
- Portable, handheld form factor with lab-quality accuracy.



Select Series- Two port VNAs 9 (Up to 9GHz)

- The SC Series are compact, USB-controlled VNAs with lab grade accuracy with Frequency coverage up to 4.5/6.5/9 GHz
- All S- parameters, dynamic range up to 130 dBm.
- Full software features: time domain, gating, fixture simulation



**SN Series Multi Port VNAs
up to 9 GHz**

SN Series: Multiport Vector Network Analyzers available in 6,8,10,12,14, and 16-port configurations up to 9 GHz



**VTR Series VNAs
(Up to 3.5 GHz)**

Two port Once path VNA available in 1.5 GHz & 3.5 GHz solutions offering S11, S21, power measurement, and fast sweep performance



**Value Series - Two port VNAs
(Up to 9GHz)**

Cost-effective solutions with uncompromising performance and excludes feature like time domain, gating, fixture simulation.



✦ **Programmable DC and AC Power Supplies – Versatile,**

G5.BT - Battery Test Solution

- Designed for battery module and pack testing.
- Supports charge/discharge cycling, aging studies, and performance validation.
- Integrated Electrochemical Impedance Spectroscopy (EIS) option for advanced diagnostics.
- Auto-ranging voltage/current for flexible test setups.

G5.BAS - Battery Simulation/ Emulation Solution

- Emulates real battery behavior for inverter and charger testing.
- Programmable internal resistance and dynamic response.
- Ideal for EV drivetrain validation and power electronics R&D.
- Eliminates need for physical battery packs during development.

G5. DT - Drivetrain Inverter Testing

- Provides bidirectional DC power for EV drivetrain and inverter validation.
- High dynamic response for real-time simulation.
- Scalable to high power levels for full system testing.
- Supports regenerative operation to reduce energy costs.

G5.UNV - Universal Series

- Flexible, general-purpose DC power supply.
- Wide auto-ranging capability for diverse applications.
- Suitable for labs, universities, and industrial R&D.
- Acts as an Energy storage, solar array, and fuel cell simulation

G5.SAS - Solar Array Simulator

- Emulates solar PV arrays under varying irradiance and temperature conditions.
- Programmable I-V curves for realistic inverter testing.
- Supports grid compliance and renewable energy validation.
- Enables safe, repeatable solar testing without actual panels

G5.IND - Inverter and charger Test Power Supply

- Tailored for EV charger and inverter development.
- Provides bidirectional DC power with regenerative capability.
- Simulates battery packs or DC sources for compliance testing.
- High accuracy and fast dynamics for certification labs.

TC.ACS Series (Regenerative AC Source)

- Fully programmable voltage, frequency & phase
- Regenerative design – feeds energy back to grid
- Grid simulation: dips, surges, flicker, harmonics, asymmetry
- Up to 1000 Hz + built-in waveform generator (sine, square, triangle, sawtooth, DC, custom)
- Scalable modular system (lab to 2000+ kVA)
- High dynamics – ideal for P-HIL
- Applications: Smart grid testing, EMC analysis, Power Hardware-in-the-Loop (P-HIL)

Single-Unit 9 - 18 kW | 4 U



Single-Unit 27 - 36 kW | 7 U



Single-Unit 45 - 54 kW | 10 U



From Kilowatts to Megawatts – Regatron Powers Innovation.”

Single-Unit 30KVA/50KVA | Scalable up to 2000 +KVA



SMART TWEEZERS

Smart Tweezers™ High-speed measurement of capacitance, inductance, resistance, and advanced parameters including ESR, Q, D, and impedance.



ST5S LCR Meter Smart Tweezers

Smart Tweezers™: Gold-Plated Precision. Pocket-Sized Power

Built-in high-precision LCR probe, One-hand operation & ergonomic design, Measures R, L, C, ESR, Z, Q, D, Auto component identification & range selection

- Up to 6× higher accuracy
- Precision up to 0.2% (R, C)
- Enhanced in-circuit testing & Offset (null) correction for accuracy
- Dedicated ESR & impedance modes & multi-parameter display dashboard

ST5S-BT Smart Tweezers Bluetooth

Wireless Connectivity Meets Flagship Precision based on ST5S LCR platform

Built-in high-precision LCR probe, One-hand operation & ergonomic design, Measures R, L, C, ESR, Z, Q, D, Auto component identification & range selection

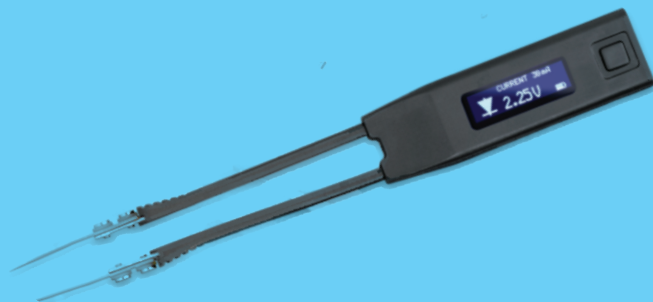
- 0.2% Accuracy with advanced functionality
- Real-time data streaming
- LabVIEW® integration ready
- Supports iOS & Android devices
- Accuracy: up to 0.2%
- Frequency: 100 Hz / 120 Hz / 1 kHz / 10 kHz
- Test Signal: 0.5 / 1.0 Vrms



Smart Tweezers ST5L Iskra LED Tester

Iskra: Specialized Precision for Rapid LED Testing

- Automatic LED polarity detection
- Displays forward voltage (Vf)
- Supports bi-directional LEDs
- Adjustable test current (1–30 mA)
- Adjustable pulse duration (10–1000 ms)
- Brightness & color verification
- Test Voltage: Up to 5V



ST5C Colibri Smart Tweezers– Simplified, Economical

Colibri: Compact LCR Power for High-Speed SMD Identification.

- Built-in LCR probe, Auto component identification & range selection, One-hand operation & ergonomic design, Measures R, L, C, ESR,
- Test Frequency: 100 Hz / 1 kHz / 10 kHz
- Test Signal: 0.45 Vrms
- Battery Life: Up to 20 hours
- Charging Time: ~3 hours

Pico Technology PC oscilloscopes, data loggers and RF test equipment:

PC Oscilloscopes:

Modern, high-performance, USB-powered oscilloscopes for engineering, R&D, and testing.

Key Features:

- Portable, USB-powered, and compact
- Includes spectrum analyzer, function generator, AWG, serial bus analyzer; MSO models
- include logic analyzer
- High-resolution sampling, low noise, accurate signals
- Advanced software: serial decoding, mask limit testing, free lifetime upgrades
- Perfect for lab, field, and educational use

Real Time Oscilloscope:

- Bandwidth: 10 MHz – 3 GHz | Channels: 2–8 | Resolution: 8–16 bit
- Memory depth: Up to 4 GS | Decoding: Up to 40 serial protocols And change 3000E series and 4000 series image

2000 Series 10–100MHz



Compact, 8-bit, function generator, optional 16-channel MSO

3000E Series 100–500MHz



High-resolution 12–16-bit, low noise, accurate signals

4000 Series 5–20MHz



High performance, ultra-deep memory, optional MSO

6000 Series up to 3GHz



USB powered, 5 GS/s sampling, AWG & function generator

9000E series Sampling Oscilloscopes:

The Unique Picoscope SXRTOs and Sampling Oscilloscopes for data eye diagram, speed and jitter analysis out of 16 Gb/s. 9.5 GHz Optical, clock recovery and differential TDR/TDT option.

- Bandwidth up to 30 GHz | Sampling rate 15 TS/s | Channels: 2 or 4
- High-speed digital & optical signals
- Electrical & optical inputs
- Eye and mask testing up to 20 GB/s



Pico Data Loggers

- **TC 08 Thermocouple Logger:** 8 channels, wide temperature range
- **ADC 20/24:** Differential inputs, galvanic isolation
- **PT 104 Logger:** Ultra-high accuracy, 0.001 °C resolution
- **PicoLog® 1000 Series:** High-speed voltage logging

PicoVNA® Vector Network Analyzers

- Models: PicoVNA 106 (6 GHz), PicoVNA 108 (8.5 GHz)
- Dual-port S-parameter measurement (S11, S21, S12, S22)
- Quad RX architecture, low noise, high dynamic range
- PicoVNA 5 software: time-domain, impedance transformation, de-embedding
- Supports SOLT & E-Cal calibration



Technica Engineering MediaConverter

Seamless Automotive Ethernet Connectivity

Technica Engineering MediaConverters provide physical layer conversion between Automotive Ethernet (100BASE-T1 / 1000BASE-T1) and devices with standard Ethernet NICs (RJ-45)

- Flexible Form Factors: MATEnet, H-MTD, EMC, RJ-45, USB-LAN
- Bi-Directional Communication: Configurable for half or full duplex
- High Compatibility: Supports a wide range of Automotive Ethernet interfaces

VARIANTS:

- Network Interfacer 10BASE-T1S
- SFP+ Module MultiGigabit 2.5/5/10 G Base-T1
- SFP Module 100/1000BASE-T1
- MediaConverter 100BASE-T1
- MediaConverter 100/1000BASE-T1 MATEnet/H-MTD /H-MTD
- MediaConverter 100/1000BASE-T1 MATEnet TC10 TC10
- Media Converter Multi Gigabit Broadcom / Marvell



TECHNICA ENGINEERING CAPTURE MODULES:

Reliable, Loss-Free In-Vehicle Data Logging

- Technica Engineering Capture Modules ensure accurate logging of in-vehicle networks, solving challenges like message loss due to performance bottlenecks or slow startup times.
- Scalable & Modular: Captures all relevant traffic with precise timestamping.
- Supports Multiple IVN Technologies: Automotive Ethernet (100/1000BASE-T1), CAN, CAN-FD, FlexRay, LIN.
- High Performance: Suitable for development, validation, and diagnostic applications.



DT Techsolutions Pvt Ltd.

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CONTACT US

CHENNAI OFFICE
No. 8/4, Venu Reddy Street Guindy, Chennai 600 032
Phone: +91-44-42691512 Mobile: +91-9677048963
www.dttechsolutions.com | www.signalhound.in
email: sales@dttechsolutions.com

Noida Office
Workspace By Innova, H-54, Sector 63,
Noida, Uttar Pradesh - 201301
Phone: +91 120 313 0692



TECHNICA ENGINEERING SWITCH BASED PRODUCTS:

High-Performance Tools for Testing & Validation

- Technica Engineering's Switch-Based solutions are ideal for developing, testing, and validating Automotive Ethernet vehicle networks.
- Enhanced Ethernet Switch: Communicates with 100BASE-T1 and 1000BASE-T1 nodes; uplinks up to 10 Gbit/s; manages all traffic across 8 x 1000BASE-T1 ports.
- MediaGateway (TE-1100): Facilitates communication between CAN, 1000BASE-T, 100BASE-T1, and 1000BASE-T1, with optional FlexRay logging via Ethernet.

FEATURES:

- Port Segmentation
- PTPv2 to gPTP Bridge
- Ingress Rate Limiting
- Bandwidth Reservation
- Advanced Filtering
- gPTP Time Synchronization
- Remote API for configuration.



Variants:

- Iias Sniffer
- Capture Module 10BASE-T1S
- Capture Module SerDes GMSL2/3
- Capture Module MultiGigabit
- Capture Module 1000 HIGH MATEnet / H-MTD
- Capture Module 100 High
- Capture Module Ethernet/CAN/LIN Combo
- Capture Module Sense

