

advancement of technology

ITIC facilitates the advancement of technology development in the E&E industry, through industrydriven collaborations with resources and expertise pooling, with goals to localise high-value components and boost value-added contributions.

Shared Equipment & Tools

- Oscilloscope
- Multimeter
- Test Chamber
- Picoammeter
- Network Analyzer
- Signal and Spectrum Analyzer
- Function Generator
- Soldering Station

- Signal Generator
- Logic Analyzer
- Source Measurement Unit
- DC and AC Current Source
- Power Supply
- AC/DC Electronic Load
- Programmable AC Power Source

OSCILLOSCOPE

RT06

High-Performance Analysis: Offers superior bandwidth (up to 2 GHz) and sample rates (up to 20 GSa/s), ideal for advanced debugging, signal integrity analysis, and high-speed digital design.

Advanced Features: Provides high-resolution signal acquisition, advanced trigger modes, and extensive protocol decoding capabilities for complex signal analysis.

RTB2004

Cost-Effective Solution: Tar gets mid-range applications with bandwidths up to 300 MHz and sample rates up to 2.5 GSa/s, suitable for education, R&D, and general electronics troubleshooting.

Features: Advanced trigger modes, and extensive protocol decoding capabilities for complex signal analysis.

MULTIMETER

5 1/2 Digit 34405A

Measurement Capability: Provides precise measurements of DC/AC voltage (100 mV to 1000 V, ±0.015%/±0.1%), DC/AC current (10 mA to 10 A, ±0.05%/±0.1%), resistance, capacitance, frequency, diode test, and continuity, with 120,000-count resolution.

Fast & Reliable Readings: Delivers up to 19 readings per second, ensuring quick and accurate measurements for electronic testing.

TEST CHAMBER

TM55

Wide Temperature Range: The TM55 provides precise temperature control, ranging from -30°C to +150°C, allowing users to simulate extreme environmental conditions for product testing and reliability validation.

Compact and User-Friendly Design: As a benchtop model, it is space-efficient and easy to operate, featuring advanced programmable controls for temperature cycling and stability tests, making it suitable for laboratories and R&D environments.

PICOAMMETER

2502 Dual Channel

Ultra-Low Current Measurement: Measures currents from 1 fA to 20 mA with high accuracy and low noise, ideal for low-level current testing such as photodiodes, semiconductor leakage, and sensor arrays.

Dual-Channel Synchronous Operation: Offers two fully independent or synchronized channels, enabling high-throughput testing and simultaneous measurements on multi-device setups with sub-picoampere resolution.

NETWORK ANALYZER

E5071C ENA Series

Wide Frequency Range: It covers a broad frequency range from 9 kHz to 20 GHz (depending on the model), enabling precise measurement and analysis of network parameters like S-parameters in RF circuits and components.

High-Speed and Accurate Measurements: The E5071C offers fast sweep speeds and high measurement accuracy, making it ideal for characterizing passive and active components in R&D and manufacturing environments.







♦ Rohde&Schwarz











ZVT-8 Vector

4-Port Measurement: Enables simultaneous S-parameter measurements (S11 to S44) across 4 ports, ideal for multi-port RF component testing.

Wide Frequency Range & High Dynamic Range: Covers 300 kHz to 8 GHz with a dynamic range over 120 dB, ensuring precise RF and microwave analysis.

SIGNAL AND SPECTRUM ANALYZER

N9010A EXA Series

Frequency Coverage: Provides analysis capability up to 3.6 GHz, suitable for a broad range of RF applications including cellular, Wi-Fi, Bluetooth, and general-purpose wireless testing.

Advanced Signal Analysis: Features built-in measurement applications for modulation analysis, spectrum monitoring, and time-domain analysis, enabling fast, accurate characterization of RF signals for troubleshooting and design validation.

FSV3044 Signal and Spectrum Analyzer

Wideband Spectrum Analysis (10 Hz – 44 GHz): Measures and analyzes RF signals across a broad frequency range, making it suitable for wireless communication, radar, and satellite applications.

High-Speed Signal Processing: Features fast sweep speeds and real-time analysis, enabling quick and accurate detection of transient signals, interference, and complex modulations.

RSA3303A

Real-Time Signal Analysis (DC to 3 GHz): Continuously monitors and analyzes RF signals up to 3 GHz, detecting short-duration and transient events that traditional spectrum analyzers might miss.

Advanced Triggering & Signal Capture: Features DPX[®] spectrum display and deep memory capture, enabling detailed visualization of RF signals, interference, and modulation characteristics in real time.

FUNCTION GENERATOR

Dual Channel Arbitrary/Function Generator AFG3252

Wide Frequency and Sample Rate Support: Delivers sine waves up to 240 MHz, and supports arbitrary waveform generation with a 240 MS/s sample rate, 14-bit resolution, and 128k point waveform memory per channel.

Flexible Signal Design: Supports variable rise/fall times, modulation types (AM, FM, PM, FSK, PWM), and sweep/burst modes for dynamic testing environments.

33220A 20MHz Function/Arbitrary Waveform Generator

Standard & Arbitrary Waveform Generation (Up to 20 MHz): Generates sine, square, triangle, ramp, pulse, and custom arbitrary waveforms, useful for testing circuits and components.

Precision Signal Control: Offers AM, FM, PM, PWM, and burst modulation, along with variable duty cycle and frequency sweep, making it ideal for simulating real-world signal conditions.











ROHDE&SCHWARZ



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SIGNAL GENERATOR

SMB100B

High-Purity Signal Generation (Up to 20 GHz): Offers ultra-low phase noise (e.g., –152 dBc/Hz at 1 GHz, 20 kHz offset) and high output power (up to +30 dBm), ideal for RF, aerospace, defense, satellite, and wireless communications testing.

Flexible Modulation Capabilities: Supports AM, FM, PM (ϕ M), and pulse modulation, with optional support for high-speed pulse trains and I/Q modulation, enabling realistic and complex RF signal simulations.

SOLDERING STATION

FX972-60 Dual Port Soldering Station

Ergonomic Design: The FX972-60 is built for comfort, with a lightweight and ergonomic handle that reduces hand fatigue during extended soldering sessions, improving overall user control and precision.

High-Performance Heating Element: It features a powerful heating element that ensures quick heat-up and stable temperature control, making it suitable for precise soldering of a wide range of components.

FR810B-19 Hot Air SMD Rework Station

Precise Temperature Control: Adjustable temperature settings with excellent stability, allowing for precise control during the rework of SMDs without damaging sensitive components.

Powerful Hot Air Gun: Features a high-powered hot air gun with adjustable airflow, enabling efficient removal of soldered SMD components and perfect reflow soldering for a variety of applications.

FA430-08 Soldering Fume Extractor

Efficient Fume Extraction: The FA430-08 uses a high-performance filtration system to capture and filter harmful soldering fumes, improving air quality and protecting users from respiratory hazards.

Quiet Operation and Adjustable Airflow: It operates quietly, minimizing disruption in the workspace, and features adjustable airflow to suit different soldering applications, ensuring optimal fume extraction.

FX9705-811 Thermal Tweezer

Precise Heat Control: The thermal tweezer offers precise temperature control, making it ideal for handling and removing small SMD components without damaging the surrounding circuitry.

Efficient and Fast Soldering: With a fast heat-up time and uniform heat distribution, the FX9705-811 provides efficient soldering and desoldering, improving workflow in delicate electronic repairs and rework tasks.

FR410-94 Desoldering Tool

Built-In Vacuum Pump: The integrated vacuum pump provides powerful suction, ensuring quick and effective removal of solder from through-hole and other soldered joints, making it ideal for heavy-duty desoldering applications.

Adjustable Temperature Control: It offers precise temperature adjustment with high heat capacity, enabling safe and efficient desoldering of components from multi-layered PCBs without damaging the board or components.













ЭНАК(О



LOGIC ANALYZER

TLA5201B

High-Speed Digital Signal Capture (Up to 235 MHz State, 34 Channels): Captures and analyzes digital signals in complex circuits, assisting in effective troubleshooting and debugging.

Advanced Triggering & State Analysis: Offers deep acquisition memory and powerful triggering capabilities for tracking logic states, ideal for debugging microprocessors, FPGAs, and embedded systems.

SOURCE MEASUREMENT UNIT

2400-LV

Precision Source & Measure (±20V, ±1A): Provides accurate voltage and current sourcing while simultaneously measuring response, ideal for semiconductor testing, materials research, and sensor characterization.

Four-Quadrant Operation: Functions as both a power source and electronic load, enabling testing of active and passive components with high precision.

DC AND AC CURRENT SOURCE

6221

Ultra-Low Noise DC & AC Current Sourcing (100 fA to 100 mA): Provides highly stable and precise DC and AC current for testing low-resistance materials, semiconductors, and sensors.

Built-in AC Sweeps & Pulsed Modes: Enables automated current sweeps, pulsed testing, and sine wave outputs, ideal for resistance measurements, Hall effect testing, and device characterization.

POWER SUPPLY

E3630A

Triple Output DC: 0 -6 V 2.5A / 0 - ±20V 0.5A

Triple Independent Outputs: Provides 0 to 6V (2.5A) and ±20V (0.5A), allowing simultaneous powering of multiple circuit sections.

Stable & Reliable Power Delivery: Ensures low ripple and noise, with precise voltage and current control for electronics testing and troubleshooting.

PSM-3004 Programmable

Adjustable Output (0-30V, 0-4A): Provides precise voltage and current control for electronics testing, circuit development, and industrial power applications.

Programmable & Remote Control: Features built-in memory storage, USB, and RS-232 interfaces, allowing for automated testing and remote operation.

E36233A DC

Dual Output, Auto-range: 2 x 30 V; 20 A; 400 W: LAN; USB

Dual Output with High Power (Up to 200W): Provides 0-30V/20A and 0-60V/10A outputs, enabling flexible testing for power electronics, circuit design, and device characterization.

Accurate & Programmable Control: Features low noise, high-resolution measurements, and remote operation via USB, LAN, and optional GPIB, allowing for automated testing and precise power delivery.



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E36234A DC

Dual Output, Auto-range: 2 x 60 V; 10 A; 400 W: LAN; USB

Dual-Output, Auto-Ranging Power (400W Total): Provides two independent outputs (0-60V, up to 10A each), automatically adjusting voltage and current to meet different load requirements.

Precision & Remote Control: Offers low noise, accurate measurements, and remote operation via USB, LAN, and optional GPIB, enabling automated and high-precision power testing.

EDU36311A DC

Triple Output: 1 x 6 V; 5A and 2 x 30V; 1 A; 90 W: LAN; USB

Triple Independent Outputs (90W Total): Provides one 6V/5A output and two 30V/1A outputs, allowing simultaneous powering of multiple circuit sections.

Precise Control & Connectivity: Features low noise, accurate voltage/current regulation, and remote control via USB & LAN, making it ideal for automated testing and learning applications.

E3632A DC

Single Output, Dual range: 0 - 15V; 7A or 0 - 30 V; 4 A; 105/120 W: GPIB

Dual-Range Output (Up to 120W): Provides 0-15V at 7A or 0-30V at 4A, allowing flexibility for different power requirements.

Precision & Remote Programming: Features low noise, high stability, and remote control via GPIB and RS-232, making it ideal for automated test setups and precise voltage/current regulation.

AC/DC ELECTRONIC LOAD

IT8615

Versatile AC/DC Load Simulation (Up to 1800W): Supports both AC and DC loading with adjustable voltage, current, power, and crest factor, making it ideal for testing UPS, power converters, and grid simulations.

Multiple Operating Modes: Provides constant current (CC), constant voltage (CV), constant power (CP), and constant resistance (CR) modes, allowing for flexible and precise load simulations.

PROGRAMMABLE AC POWER SOURCE

IT7624 1500VA

Wide Output Range & Programmability: Provides 0-300V AC output, 45-1000Hz frequency, and supports various waveforms, making it ideal for testing power electronics, appliances, and industrial equipment.

Advanced Simulation & Remote Control: Features harmonic analysis, transient simulation, and remote operation via USB, RS-232, and LAN, enabling automated and precise power testing.















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