KEYTEK

ECAT

The KeyTek ECAT (Expert Computer-Aided Testing) system is a highly flexible, modular pulsed EMI and EMC test platform. Designed for immunity compliance testing, the ECAT mainframe supports various plug-in modules to generate Electrostatic Discharge (ESD), Electrical Fast Transient/Burst (EFT), Surge, Ring Wave, and Power Dips/Interrupts, isolated electrically from the control PC via a dedicated fiber-optic link.

SPECIFICATIONS

General

Interfaces	Fiber-optic control link to PC, GPIB (optional)
Display	Model dependent (vacuum fluorescent display on E501/E501A, or none/PC controlled for E502B)

Physical

Power Supply	115/230 VAC (±10%), 50/60 Hz (configuration dependent)

System & Chassis Architecture

System Type	Modular Pulsed EMI / EMC Test System
Chassis Slot Style	Dedicated plug-in module bays for simulator and coupler modules
Isolation Method	Fiber-optic serial link for high-voltage electrical isolation of the host controller

RF, Electrical & Calibration Performance

Supported Test Standards	IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge), IEC 61000-4-11 (Dips/Interrupts), IEC 61000-4-12 (Ring Wave) (module dependent)
Coupling Decoupling Networks (CDN)	Internal or external CDNs up to 3-phase, 100 A per phase (configuration dependent)

Connectivity & Host Interfaces

Host Interface	Fiber-optic to RS-232, USB, or PCI interface card on host PC

Software & Programming

Software Control	KeyTek ECAT Control Software for Windows
Operating Modes	Manual control, automated pre-programmed test sequences

Physical & Mechanical

Form Factor	19-inch rack-mountable mainframe cabinet

TECHNOLOGY

Modular Pulsed EMI/EMC Test System

APPLICATIONS

Electromagnetic Compatibility (EMC) Immunity Testing