compactUTS

functional test, simplified.

Sometimes functional test does not require a big fancy test rack – but your operation needs test solutions that can scale. That's why Bloomy created the compactUTS™ (cUTS) functional test platform. Packing all the functionality you'll need for automatically testing simple PCBAs, subassemblies and products, you can use our powerful Universal Test System LabVIEW/TestStand software suite to develop test programs that execute on your PC. Or, have us create a turnkey cUTS hardware/software solution, we are experts in functional test!

Built around precision NI DAQ and DMM instrumentation and our own switch matrix and power control, you can connect up to 50 testpoints to your device through a robust VPC i1 mass-interconnect. The cUTS can automatically test many different mixed-signal electronic devices by employing DUT-specific cables that trigger the system to run associated test procedures.

APPLICATIONS

- PCBA Functional Test
- Subassembly Functional Test
- Electronic Product Test

FEATURES

- Bench-top form factor
- USB controlled
- 6½ Digit DMM
- Multifunction DAQ (16 AI, 2AO, 8 TTL DIO)
- Flexible switch matrix
- Reliable VPC i1 interface
- Up to three fixed power supplies
- Two general purpose relays
- Serial communications
- Manual DMM Probes
- Two operator switches
- Pass and fail indicators
- LabVIEW drivers
- UTS Software Suite available

Does your test program require a different set of instrumentation or interconnect?

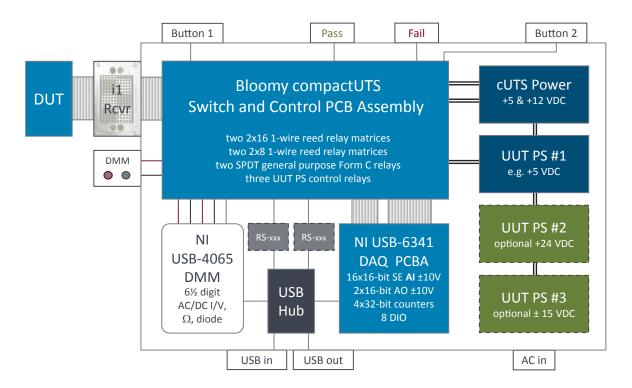Inquire about Bloomy's UTS, extendedUTS, as well as custom turnkey test systems.

BROAD TEST FUNCTIONALITY

HARDWARE SPECIFICATIONS

INSTRUMENTATION	
NI USB-4065 Digital Multi Meter (DMM)	
Resolution	6 ½ digit, 22-bit
Functions	VDC, IDC, VAC, IAC, 2-wire resistance
NI USB-6341 X-Series Data Acquisition	
Analog Input	16 SE / 8 differential ±10V, 16-bit, 500kS/s
Analog Output	2 SE ±10V, 16-bit, 900kS/s
Digital I/O	8-ch, TTL, bi-directional, 1MHz
Counter/Timer	4-ch, TTL, 100MHz
Mux / Matrix Switching	
Topologies	Two 2x16 1-wire matrix Two 2x8 1-wire matrix
Switch Ratings	37 VDC, 0.5A; 10W max., 1MHz bandwidth
General Purpose Relays	
Relay Configuration	Two SPDT, 30VDC @ 5A
Fixed Power Supplies	
Quantity	Up to 3
Power Options	5, 12, ±15, 24; up to 5A each
Control	Independent enable relays

COMMUNICATIONS	
Number of Ports	2
Port Options	RS-232, RS-422/485, CAN, SPI, I2C
INTERFACES	
Mass Interconnect	VPC i1, 160 pin
Programmable Indicators	1 red LED 1 green LED
Programmable Pushbuttons	2x momentary
Manual Probes	External DMM banana jacks
USB	1x USB-B In (control) 1x USB-A Out
Grounding	USB wrist strap
PHYSICAL & POWER	
Input Power	120VAC 60Hz, 5A
Dimensions	20" W x 16.25" D x 4.25" H
Weight	25 lbs
SOFTWARE	
Software Interface	LabVIEW Drivers UTS Software Suite available

Call 860-298-9925 or visit
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