

The BRAT[®] 67 PXI Test System



Advanced Testing Technologies, Inc.



BRAT 67 PXI Test System

The BRAT 67 PXI Test System is capable of replacing a wide assortment of analog and digital hand-held and desktop instrumentation. These test instruments are packaged in a small chassis that will fit on most technicians' desktops. The instruments may be used either manually with software panels or under program control with support for several modern programming languages.

The basic analog test system consists of a DMM, counter timer, arbitrary function generator, and oscilloscope. The system may be augmented with a complement of optional digital instruments that consists of a 64 bit bidirectional digital word generator, MIL-1553

serial bus tester, static digital latch, and four independent DC supplies.

Computer and Chassis

The computer consists of an embedded PXI controller mounted in slot 1 of an 18 slot PXI chassis. The computer interfaces with a flat screen monitor, a keyboard and a mouse. The controller has a built in hard drive and latest version of the Intel system CPU. Connectors are mounted on the front of the controller to provide: a LAN port, 2 USB ports, 2 RS-232 ports, an EPP parallel port, an IEEE-488 port and the keyboard, monitor and mouse peripheral ports. The latest version of windows and choice of operational software are preloaded on the system.

Basic System Specifications

Arbitrary Waveform Generator

Channels:	2 output channels
Frequency Range:	1.0 MHz to 100 Mhz
Amplitude (1 MOhm):	20 mV to 20 Vpp
Amplitude (50 Ohm):	10 mV to 10 Vpp
Standard Waveforms:	DC, Sine, Square, Triangle, Sinc, Pulse, Ramp, Noise, Multitone, AM, FM, Arbitrary
Custom Waveforms:	2M points, 16 bit data, 400 Mhz data rate

Digital Multimeter

AC/DC Voltage:	Range: 330 mV to 250 V Resolution: 100 nV
Resistance (2/4 Wire):	Range: 330 Ohms to 3.3 MOhms Resolution: 10 µOhms

Digital Oscilloscope

Channels:	2
Bandwidth:	200 Mhz
Storage:	1000 points per channel
Resolution:	8 bits
Time Scale:	10 ns/div to 1 s/div
Voltage Scale:	40 mV to 800 V Full Scale
Measurements:	12 automatic measurements

Universal Counter/Timer

Channels:	2
Bandwidth:	CHA: 1.3 GHz CHB: 225 Mhz
Period:	1 ns to 1E5 s
Resolution:	7 digits
Amplitude Range:	5 V RMS
Trigger Resolution:	40 mV
Impedance:	1 MOhm or 50 Ohms

Option 100– Digital

Dynamic Digital

Channels:	64
Memory per Pin:	32 MB
Clock:	Range: 5Hz to 50 MHz Resolution: 1 Hz
Output:	Voltage: Programmable 1.4 V to 3.6 V Current: 50 mA max.
Input Voltage:	Programmable 0 V to 5.5 V
External Clocking	

Static Digital

Input Channels:	24 bits (Optically Isolated)
Hi Level:	2 to 28 Vdc
Lo Level:	0 to 1 Vdc
Output Channels:	24 Switch (Optically Isolated)
Voltage:	60 Vdc max.
Current:	120 mA max.
Foldback:	260 mA

1553 Bus Analyzer

Compatible with MIL-STD-1553A/B	
Channels:	2 each
Modes:	Bus Controller, Remote Terminal, Monitor, Error Injection

DC Power Supplies

Outputs:	4 programmable floating supplies
Voltage:	0 to 30 Vdc
Resolution:	7.33 mVdc
Current:	2 A, 30 W max.

Spare Slots

Basic Analog System:	12 spare slots
Base plus Digital Option:	6 spare slots

ATTI Company Profile

The corporation:

- has designed, developed and manufactured ATE since 1987
- has delivered and supported many test systems in both the commercial and military sectors
- is an innovator in developing and implementing VXI technology solutions
- has developed over one thousand test program sets, covering the test spectrum from simple to extremely complex
- has numerous satisfied customers, including:
 - Agusta, Italy
 - Boeing
 - Esdas, Turkey
 - Havelsan, Turkey
 - Hellenic Air Force
 - Japanese Air Force
 - KLM Royal Dutch Airlines
 - M&T Corporation
 - Modern Technologies Corporation
 - NASA
 - NATO
 - Palomar Products, Inc.
 - Royal Saudi Air Force
 - US Air Force
 - US Navy

ATTI Worldwide Support

The corporation:

- has delivered numerous test systems worldwide
- offers one of the most experienced service, training and support teams in the world
- has worked with our customers solving diverse test challenges in digital, analog, and RF applications
- is committed to total hardware and software support including service, spares, upgrades, documentation, training, and configuration control
- offers modem links to experienced professionals in our home office in Hauppauge, NY
- is committed to future updating of both hardware and software to enhance our customers' products while protecting their investment in test programs
- has the financial efficacy to guarantee long-term commitments



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