



## FLEX 40

The FLEX 40 is our top selling chassis for large Generic Functional ATE Systems. It is effectively two FLEX30 systems joined together to provide a huge amount of space for Instrumentation. The space available in the system when fitted with a G12X Interface means there will always be room to add to the system in the future.

### Interface

Generally fitted with a VPC G12 or G12X Interface that allows up to 3456 test connections, the interface provides long term reliability coupled with excellent Signal Integrity.

Fixturing options could include:

- Plain Platten Fixture
- CAM or Pneumatic Operated Bed of Nails
- A Test Receiver option with low cost cassettes

### Controller

Given the space available any of the FLEX controller options are available on the FLEX 40.

- PXI Slot 0 Controller
- Rack mount Industrial PC
- External PC
- The most popular option is the 4U Industrial PC that add 12 PCI /PCIe slots and Dual raid Drives for increased reliability

### Instruments

Our systems are designed for PCI, PXI, LXI, GPIB or USB based Instruments. Any combination of these Instruments is possible, space being the only limiting factor.

Options that work well with the FLEX 40 are;

- A high slot count PXI chassis always leaving free space for future expansion
- A FLEX PMU (Power Management unit) will usually be fitted for power control and cooling of the system.

- JTAG Boundary scan controller
- VPC DIOS Board

YAV modules complement the FLEX range perfectly offering Instruments and Relay switching on pcb's that screw directly into the VPC Interface. The boards are controlled with a two wire CAN bus for simplicity of installation and ease of service exchange. A wide range of YAV switching modules ensure suitability for any application and the best possible signal integrity with none of the cost or reliability problems normally associated with cabled systems.

Finally, add to the system a WriteNow! In system programmer that provides ganged programming of up to 8 parallel devices for virtually any protocol.





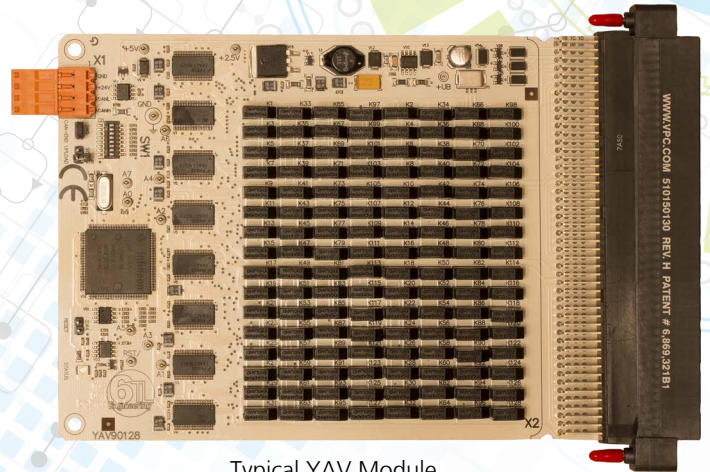
## Software

We have developed the software for the FLEX range of ATE's over many years and view this as the most important part of the FLEX concept. Our aim has always been to create a system that meets the following criteria:

- Open Architecture
- Easy to use from day one
- High Level program commands to make program generation as quick as possible
- A software environment that can keep on growing.

Loaded FLEX software can include

- NI Teststand - Our main operating sequencer that can easily Interface to any other software code from Labview to C++, DLL, Active X etc.,
- FLEX Stand - Easily create amazing operator interfaces
- FLEX Drivers - Simple to use drivers designed to make Programming easy
- FLEX Testview - A web based package that can provide an Overview and Alarms for logged results.
- FLEX ATEasy - A text based programming language for Legacy Program conversions.



Typical YAV Module



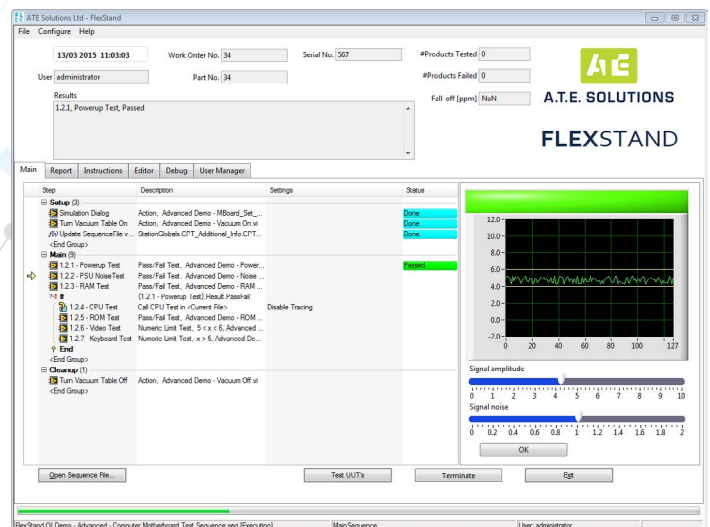
18 Slot PXI chassis

## System specification

Size : W 1200 mm, D 800 mm, H 1450mm  
 Supply : Single Phase 230V, 13A, 50Hz Supply  
 Weight : 170 Kgs (no instruments)



Write Now! - programming module



Flexstand - Operator Interface