

6TL Engineering introduces YAVPacks,

A complete functional test solution for small to medium production quantities.

Ideal for EMS companies (Electronic Manufacturing services).



Universal test systems are perfect solutions if you have large quantities of loaded Printed Circuit Boards (PCBs) that need to be tested or if the PCB is for an industry where thorough testing is required, like medical, military, avionics or even automotive.

But what do you do if your customer wants you to do a functional test before you ship the PCB to your customer and he is not willing to invest in a complex test system, or you do not have the people to develop such a system and develop the test programs for it?

The above situation is a typical example where the 6TL Engineering YAVPacks offer an ideal solution. The key advantages of our YAVPacks are:

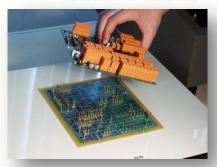
- Easy to program, using MSES Software and MS Excel (LabView drivers are provided for advanced programming solutions)
- 2. Standalone operation and powerful measuring capabilities with switching in one compact unit.
- 3. In combination with a testfixture it offers a complete standalone functional test unit. (SmartFixture*)
- 4. CanBus is used to connect the various modules together with minimal in-system wiring.
- 5. A 24V power supply for powering the measurement electronics and to apply voltages to the Unit Under Test (UUT)
- 6. The hart of each YAVPack is our new YAV90MMU which has the following measurement capabilities;
 - 4 3/4 digits true RMS auto ranging up to 440 VAC,
 - VAC, VDC, Ohms, Pt100 (temperature), mA AC, mA DC, Capacitors, Diodes
 - Frequency meter (Up to 400 MHz) and Duty Cycle (Up to 1MHz), Peak hold function, X10 function
 - Scanner x16 measurement channels.
 - 1000V isolation between measurement channels
 - Two isolated Pulse Generator Channels with External Trigger In and Trigger Out SMB connectors
 - Auto zeroing and Self calibration system
 - Control via CAN bus or Ethernet (LXI), Gateway LXI to CAN bus for remote monitoring and fault finding.
 - 8 Programmable digital outputs (PNP 24VDC 300 mA)
 - Up to 20 readings per second
 - Expandable switching, I/O or measurement capabilities using additional YAV Modules
 - Extreme reliable, High quality Mass Interconnect module (> 20.000 cycles) (VPC 90 Series Compatible)
 - RTOS based processor with build-in test steps sequence controller (capacity up to 1000 programming steps).
- 7. The YAV90CIN switching module is present to control & monitor the power and loads that need to be connected to the UUT.
- 8. A YAVCANCON module counts test cycles, detect PCB presence and is used for identification and maintenance routines.
- 9. In combination with a CanBus controlled small Man Machine Interface (MMI) the YAVPacks can be controlled and operated.
- 10. For easy programming an optional MSES licence offers your test engineers a test script to be created using MS-Excel. The generated test sequence (max 1000 Instructions) is uploaded to the YAVPack using the LAN interface.
- 11. To monitor, fault-find and calibrate the YAV modules we provide an additional software package called Phy6 explorer.



Sample, standalone test applications using 6TL Engineering YAVPack









Smart Fixture's

The complete Low-Cost test solution.

The concept of our Smart Fixture' has not been developed to cover the need of testing sophisticated UUTs (Units Under Test) that need a lot of instrumentation, power supplies and other measurement tools. For those applications 6TLEngineering is offering its modular tester concept from low volume high mix to high volume low mix applications.

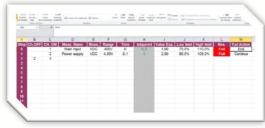




But in the case where you have small series or low cost boards and you cannot justify an expensive test solutions or do not need sophisticated measurement instrumentation, 6TL Engineering introduced a low cost SMART Fixture' solution that let you test your UUT functionally without having the need to invest in expensive software or hardware. It is smart in the way that it uses YAVPacks to cover the most common testing needs with a minimum

investment, based on 100% standard and reusable devices. But with high quality, reliability and a minimum of engineering effort, software knowledge, wiring and maintenance costs.

The Test program can be generated using a simple translation tool that allows the test program to be developed in an Excel template or, in case you already have programming experience and licenses, you can also use N.I. LabView and/or TestStand as typically used in high performance testers.



Easy programming using Excel







Powerful build-in YAV Pack with Ethernet and CAN, communication. 43/4 -digits Multi-meter, Frequency- meter, 2-Channels Pulse generator, 500V 16-Channels Scanner, 8x programmable Digital Outputs PNP 24V 300mA, build in Power supply and maintenance feature.

Controller, Instruments, switching and Can controlled MMI included. High performance VPC connectors and optional Patch cords. 14mm Linear movement guarantees optimal contact with the UUT, 2 digit display indicating test steps and errors.

Probes and pushers plate are easily exchangeable. Low cost tooling, minimal engineering effort and low cost short wiring, easy programming through Excel, stand alone or PC controlled operation through Labview. Base Hardware 100% reusable.

More information VISIT www.6TLEngineering.com

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Watch the video