

6TL24

COMBINATIONAL TESTER



6TL **YAV** Modules compatibility.
PXI chassis direct integration
Reliable mass interconnect interface (VPC 90 series compatible)
Short delivery time

fastATE[®] Technology platforms
are the ideal base
to develop ATE solutions

6TL provides the base, the
integrator provides the ATE

The 6TL-24 is the base platform for Combinational test (ICT+FCT) in low to mid volume, high-mix electronic productions.

A dual-stage pushing mechanism will allow performing both, the FCT and the ICT test, without the need of changing the test platform and with a low cost fixturing technology. To do so, the exchangeable cassette fixture must be designed with two-level probes. In the 6TL24, the second level is reached thanks to a pneumatic actuator.

The 6TL24 uses the same low cost exchangeable cassettes than the 6TL-08.

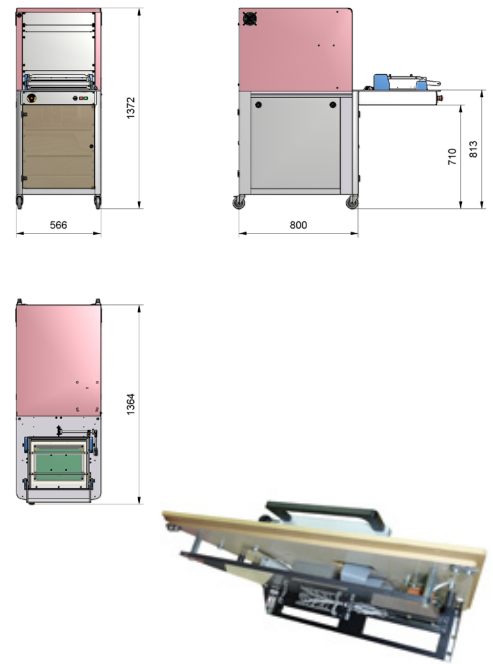
The base platform includes:

- The 6TL MMI (Platform Manager), to control the power-up and power-down procedures of the Test System, as well as the temperature and Safety aspects. An UPS will protect the instrumentation.
- Platform Controller: either an Industrial PC or an embedded PC in the PXI chassis.
- 8-slot Mass Interconnect system (compatible VPC 90 series), allowing the reliable and easy exchangeability of test fixtures (High mix: test different products with the same test platform).
- Easy integration with NI LabVIEW and PXI instruments, giving as a result, the highest level of modularity and scalability for your top-class production testing tool.

- Dual-Stage Pushing mechanism with exchangeable cassette system (FCT+ICT)
- FastATE technology: Modular, scalable and top flexible approach; Minimum wiring and easy maintenance; LabVIEW drivers.
- Mid sized - High mixed production batches
- Combinational Test
- PXI chassis direct integration
- 8-slot receiver (compatible with VPC 90 series modules)
- Platform Manager (Power, Temperature and Safety), 6TL module P/N H73000301 with EPO safety function included, and possibility to include up to 4 additional functions.
- UPS, for platform controlled power up/down and instrument asset protection
- Keyboard with trackball and TFT
- 24U 19" free rack space for integration of instrumentation
- Small footprint
- CE compliant, ESD safe
- Ready to integrate options available: Phi6 Operator Interface; Light tower; Barcode reader kit; Printer kit; auxiliary side table; Air inlet kit



Platform Operation	Off-Line
Type	19" rack with wheels
Wxdxh	566 x 1364 x 1372 mm
Weight	185 Kg
Power requirements	220V AC / 50Hz, <2KW
UPS	1000VA
Press unit	Included, two-levels, 2000N
Fixturing type	Exchangeable cassette with 8-slot ITA interface, effective area: 250x300mm Kit P/N AA413
Built in 19" rack free space	24U (830mm depth)
Mass interconnect solution	8 slots. Compatible with VPC 90 series modules
Platform Manager	6TL module P/N H73000301 (Power, Temperature & Safety Management)
Platform Controller	Industrial Computer
Operator interface	17" VGA Monitor. Option available: Side TFT arm.
Keyboard + mouse	Yes, Keyboard EU layout with trackball kit in side arm



P/N AA413: Low cost Exchangeable cassette kit, compatible with 6TL24 (and 6TL08)

P/N H71002400	6TL24 Bare Rack with pushing mechanism two-level and 8-slot receiver	
P/N H71002470	6TL24 Combinational Tester	
Rack Controller & Power Management	Test Controller	Software
Mains Power input (P/N H73000301) 24Vdc 8A Power Supply 230Vac 15A Contactors EPO Function 1x Safety Relay x2 Outputs AC Current & Power Factor measurement 2x Temp. Measurement Cooling fans control 2x M12 I/O's connector 5x CAN bus ports 1x LAN Ethernet 1x RS485 1x USB Alarm buzzer PDU (P/N H730008xx) (xx=Plug type) 8 sockets, 240Vac with Controlled start up of test system 70 A maximum total current to distribute (Power IN/OUT Connectors) in 19" rack 2UA module.	P/N MMIPC07 CORE I7 3770 5x RS232, 1x RS422/485 10x USB 2.0 4x SATA 3Gb/s 2X DIMM-1GB/DDR2/667/K 1x PCIe x16 2x PCIe x1 4x PCI OS WIN7 64BIT <i>(Option: NI PXI embedded controller)</i>	Digitaltest C-LINK DTM NI Teststand Sequence Editor Flexstand Editor (from CIM.as) 6TL step types (from CIM.as) MTS30 step types (from ad+t) <i>(Option: ATEasy with 6TL drivers from Marvin Test)</i> <i>(Option: QRM from AddQ to store and analyze test results. Fast production feedback)</i>
Switching	Power supplies	Instruments
12Ch 8A SPST with shunts (P/N YAV90CIN) 2,5GHz 5x(1 to 4) Mux (P/N YAV90501) 64Ch 2-wire 2A Multiconfig Mux (P/N YAV90059) <i>(Option: Other YAV modules instead of the default configuration ones)</i>	2Ch 60V – 3A 1Ch 6V – 1A 1Ch 25V – 0,5A 1Ch -25V – 0,5A	5 1/2 Digital Multimeter up to 300Vdc Oscilloscope 8-bit 100MHz Logic Analyzer 30Ch Function Generator 125 MS/s 14-bit 8 Digital I/O <i>(Option: PXI modular instrumentation)</i>
InCircuit Test	Boundary Scan	In System Programming
Digitaltest 9-slot MTS30 Sparrow for analog (and digital) 384 pins for analog ICT included.	XJLink2 USB 2.0 to JTAG interface 128 DIOs for BS test expansion <i>(Option: XJTAG software tools)</i>	2Ch in parallel with Algocraft WriteNOW ISP device isolation (P/N YAV90ISP) <i>(Option: 4Ch or 8Ch)</i> <i>(Option: Drivers for different chips)</i>