

1.2 Functional Test, ICT & Vision Platform 6tl-22

Features

- ✦ Modular build-up using 19 inches standard instruments and devices, 100% reconfigurable, upgradeable and reusable into other platforms.
- ✦ Standardized Test Fixtures for VPC Gemini 12, 12 slot or G12X with 18 slots Receivers for testing PCB's or Assembled Devices, with manual linear pushing system included or using an external automatic Servo Pusher allowing low cost fixtures to be used.
- ✦ Industrial PC Controller with auxiliary UPS included, allowing automatic Start-up
- ✦ Controlled Power-On and Power-Off operations, even in case of Mains failure
- ✦ Advanced CAN bus Control for all 6tl modules including Virtual Operation Control Panels allowing manual operation and test software debugging.
- ✦ National Instruments® PXI Chassis, as an option
- ✦ YAV switching and special function modules, with almost no interconnection cabling needed, optimal Signal integrity guaranteed. Modules can handle signals from DC up to 2, 5 GHz.
- ✦ Automatic Test Fixtures Identification and Test Executive Software Selection.
- ✦ Smart Test Fixtures include Non Volatile DUT data and Programmable Maintenance Counters.
- ✦ Advanced Test Software based on NI LabView/TestStand and Phi6 Test Manager.
- ✦ Options for Controlled Rejection Bin, BAR Code and/or Matrix Code Readers, Printer, and Light & Alarm Beacon.
- ✦ Teleservice by Ethernet with fixed IP address.

Applications

- ✦ Electronic Boards Test
- ✦ LED Lighting Devices Test
- ✦ Assembled Electronic Products Test

6tl-22 Platform is a perfect basis for an automatic integrated Test System for low to medium manufacturing volumes. Important technical and economical advantages due to its modular structure and expansion capability are evident. The System Control and Automation is based on CAN bus. One single four-wire cable provides power to and control all the devices. The system is simple, easy to maintain and cost effective.

It includes an industrial PC Controller and UPS that controls all steps for automatic error free power-up and down of the test system. To start working with the Test System during production it is not needed to have any know-how of the Windows operating system or any additional test system knowledge. After Switching ON the power, the System automatically initializes the test system and starts the test software. Then it identifies the attached test



fixture and automatically selects the adequate executive software that matches the connected test fixture. The Controller has 6 free slots to install additional PCI cards.

Different test fixtures can be used to test PCB's or assembled products. For testing PCB's, there is a choice of standard fixture platforms including their own linear pushing system, or alternatively a low cost fixture solution using our automatic precision servo pusher module with three pre-set test position levels for HiPot test, Functional Test and ICT test using different lengths of test probes. Test Instruments may be selected in PCI format (6 free PCI slots are available in the PC Controller), PXI format after installing an optional 5 to 18 slots PXI chassis, or any other LXI, VXI or other Rack & Stack type of instrumentation.

Optional accessories are available:

- ✦ Controlled Rejection Bin to force controlled removal of rejected DUTs preventing any mixture with good boards. The bin can be installed at the top or middle right or left side of the test platform.
- ✦ Printer to print Test Results or an Identification Label
- ✦ Bar Code or Data Matrix Reader
- ✦ Platform Status Indication light tower
- ✦ Auxilliary Side Table

All the installed devices include an Operator Virtual Control Panel to allow manual operation, test software debugging and problems diagnostics. Each 6tl-22 Test Platforms includes Remote Service capability trough a fixed IP, Internet Connection.

1. OPEN TEST PLATFORMS



Test fixtures are available for PCB's, assembled devices, LED testing and for electronic systems.



Enough free space for installing 19 inches instruments.



Operator interface module including navigation keyboard, display and start, stop and emergency push buttons.



Low cost fixture **7200.7300** to be used with the electronic servo pusher **H7100 60**.



Fixture **7200.7310** including transports rollers for final test of assembled products.



Fixture **7200.7320** including back side vision test and quick cable connection system to test LED based lighting devices



Pushers plate **7200.9000** complement of fixture **7200.7300**



19" plate **7260.1200** for simultaneously multiple connection system complement of **7200.7310** fixture



Fixture **7200.7100** including manual linear pushing system.



Dual Fixture **7200.7200** with two independent linear pushing systems.

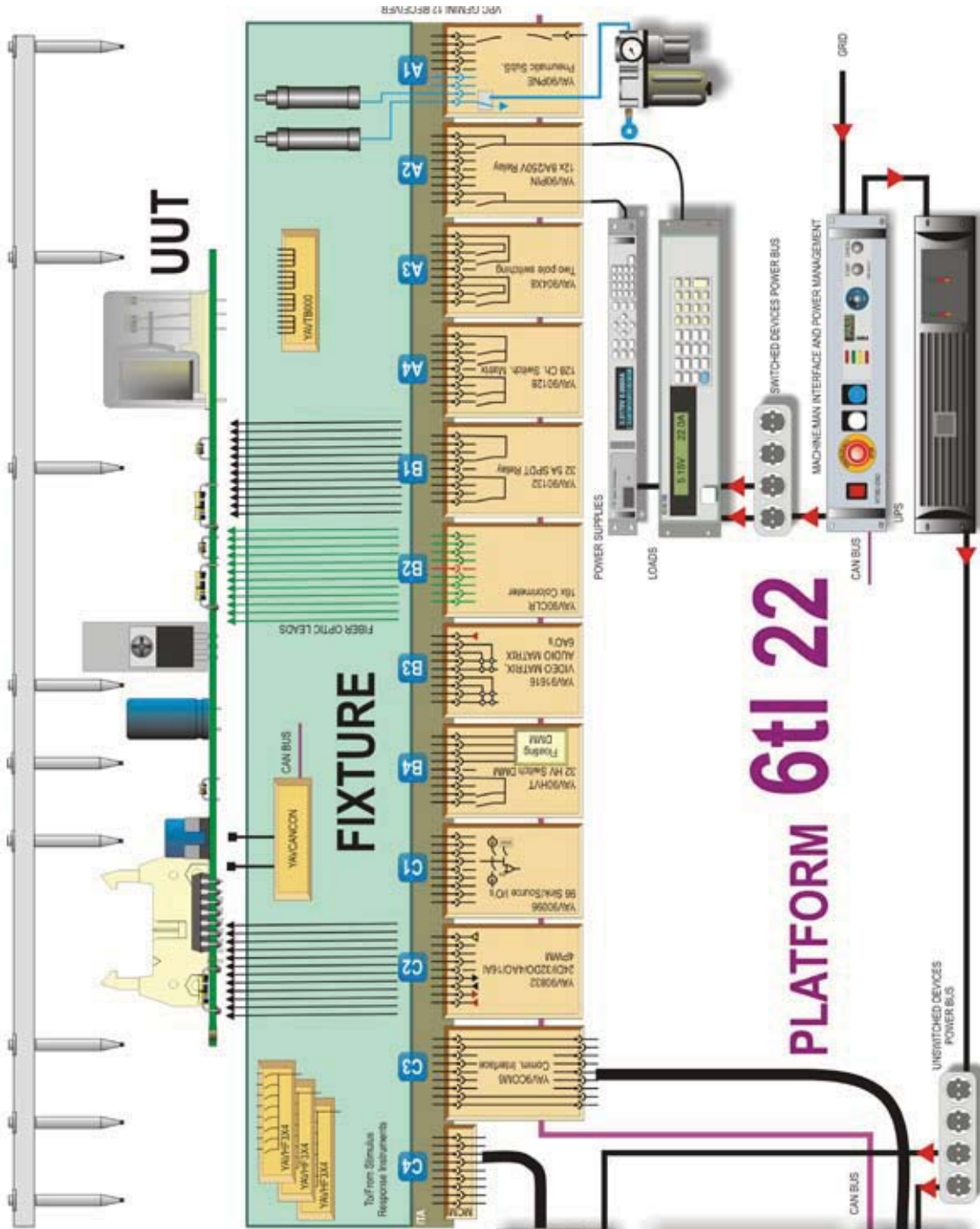


Fixture **7200.7110** with a Faraday mini chamber to test RF receivers

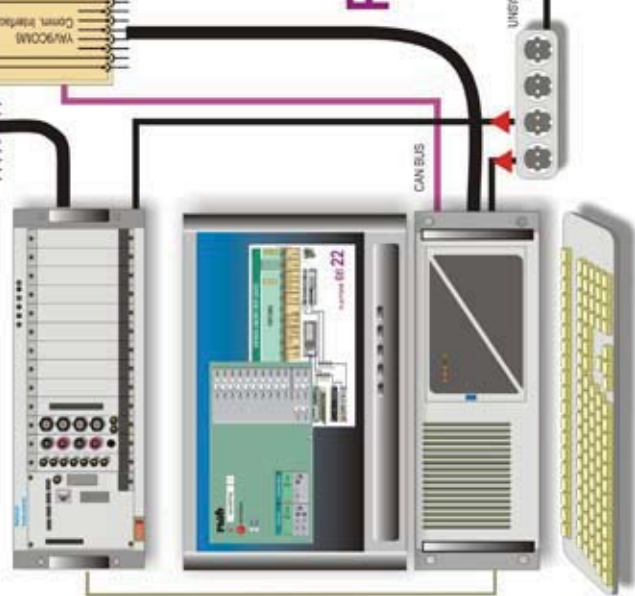


Detail of YAV switching boards and serial bus interface mounted in the back of a VPC Receiver

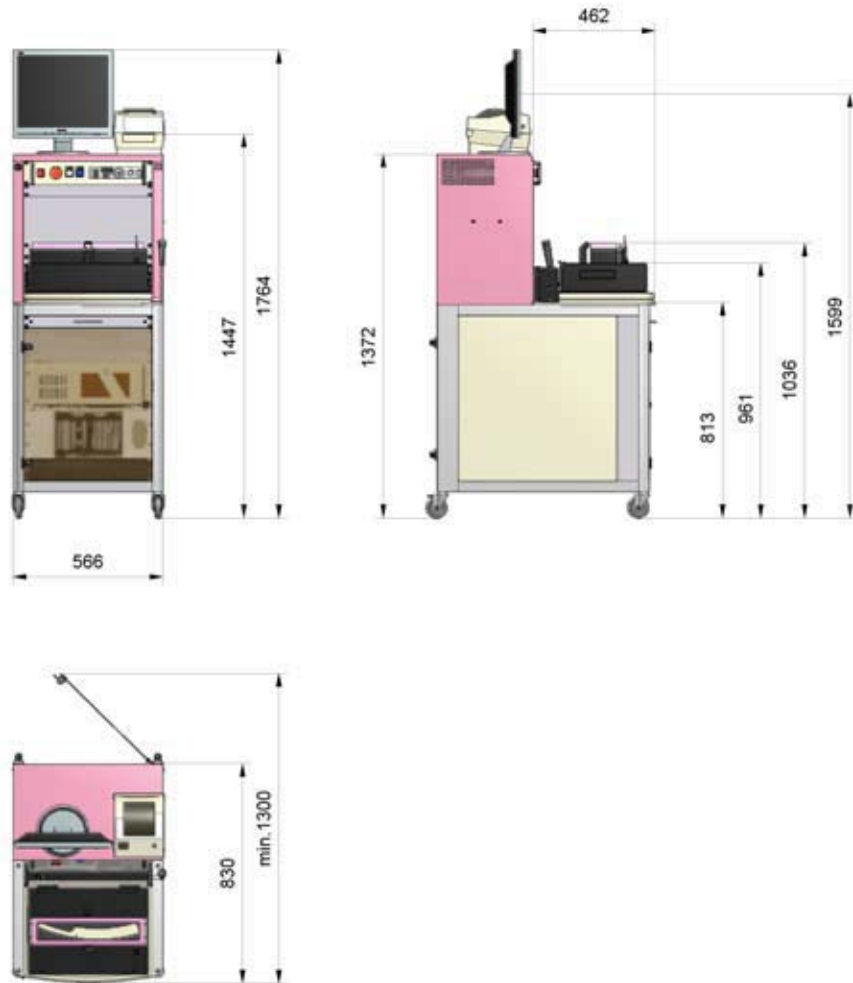
PUSHERS PLATE



PLATFORM 6tl 22



1. OPEN TEST PLATFORMS



ORDERING INFORMATION	P/N	MAINS POWER	
Description		Nominal operating voltage	230V 50-60Hz
Test Platform 6tl-22 with Gemini 12	H7100 2200	Maximum consumption	800 W
Test Platform 6tl-22 with Gemini 12X	H7100 2210		
Servo pusher 19" for Off line systems (without safety guard) 450 x 340 mm	H7100 6000		
Pushers cassette, 450mm with 10 pushers included	H7200 7945	GENERAL SPECIFICATIONS	
		Device management software, phi6	
Fixture 7300 ITA G12 PCB 370x270	H7200 7300	Maximum PCB dimensions	450x350 / 550x350 mm
Fixture 7301 ITA G12 PCB 470x270	H7200 7301		
Fixture 7100 Off line G12 with pusher system included. 250x310 mm	H7200 7100	ENVIRONMENTAL SPECS	
Fixture 7200 Off line G12 with double body pusher plate	H7200 7200	Operating Temperature	-10...+50 °C no ice
CAN bus Three color Indicator Beacon	H78001000	Humidity	5 ... 85%
Rejection Bin for 6TL 22 test platform	H710022CR	Maximum vibration	10 Gs
Label Printer	88860201044	Maximum Shock	5 Gs
Bar Code Reader 7350.5000 with mechanical support	MMMS9520	SOFTWARE	P/N
Side Stand Kit for label printer	60IL00125X	Phi6 package for Modules Management	H68002000
Data Matrix Reader 7350.4000 with manual positioning adapter kit	H73504000		
5 slot PXI 1033 Chassis for external MXI control	MM77975601		
Includes 19" mounting Kit			
Air inlet pneumatic kit	H71002181		