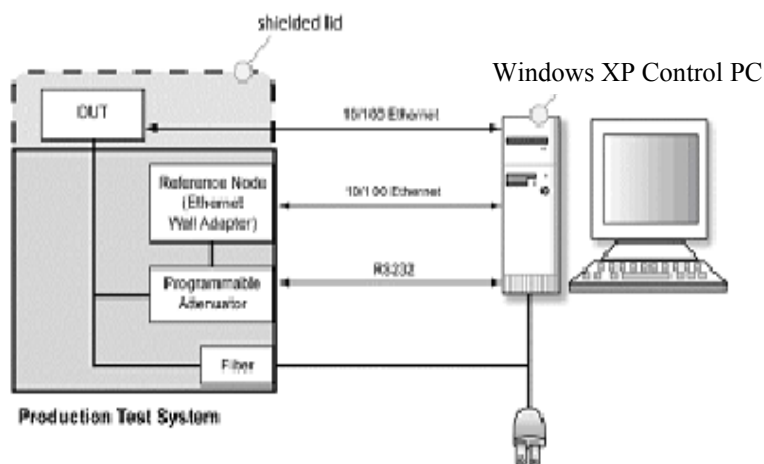# PTS5500CS

Intellon
NO NEW WIRES.

Turbo Production Test System for Volume Manufacturing

Reduces Time and Costs to Validate and Ready Products for Market

Features

- Complete design package with fully configured Control PC

- Product Test Mainframe with integrated reference node, power line filtering and programmable attenuator

- Complete end-of-line process from NVM (flash) programming to pass/ fail test result

- Directly supports testing of HomePlug to Ethernet bridges, routers, set-top boxes, gateways and Wi-Fi access points

- Building block approach allows the system to be tailored to product characteristics and manufacturing environment

- Test Management and ODM database creation software

- Custom label printing for each device under test

- Independently tests transmitter and receiver chain with both strong and weak signal metrics

- Manufacturer settable pass/fail thresholds for all tests

- Intellon developed software included as both executable and source code

- Configurable to collect detailed characterization data for engineering lab tests and debug during product development

Production Test System

Benefits

The Turbo Production Test System (PTS) from Intellon® is a complete hardware and software platform to provide an engineering test station or a production testing capability in a manufacturing environment. This important system simplifies product testing and saves valuable time while reducing costs in getting products validated, ready for market.

The PTS performs high-volume go/no-go production testing based on Intellon INT5500CS HomePlug® Turbo networking platforms such as wall adapters, routers, gateways, and set-top boxes. The included test management software automates device testing and reports simple pass/fail results.

HomePlug devices operate over a wide dynamic range (70dB) and must be tested near the limits to ensure that the product operates well when installed in the home. Isolating these signals and providing a highly controlled signal path through the test system requires precision RF design. Intellon has done the engineering and packaged the result in a test mainframe, which includes a reference node and a programmable attenuator calibration unit. The PTS includes the mainframe and a Windows-based PC to support the control software. When these components are combined with the interconnect cables, they create a test capability that exercises the full transmit and receive paths of HomePlug devices.

Included with the Test System is a CD containing the Intellon custom software in source and executable form, and a PC with this software pre-installed. The CD also contains detailed system documentation and hardware files to allow the manufacturer to build another test system and to fine-tune thresholds for the product and test environment modules.

- Production Test System software includes:
  - Receive and transmit rate tests
  - Automatic ODM database generation
  - Sample configuration files

- Detailed drawing package and user manual allowing the production engineer to setup the test system, tune for operation and add additional test systems as volumes ramp up

- Determines or programs the DUT's MAC address, maintains an address and password database, and prints the product's password label

- Uses Windows operating system.

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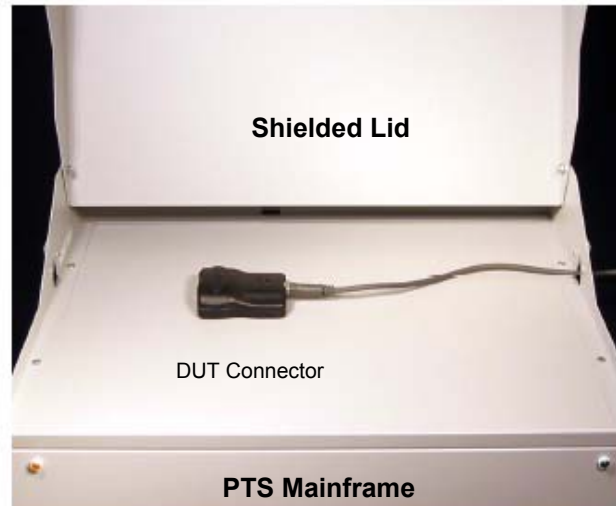(352) 237-7416
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Intellon's Production Test System also includes software to manage MAC address and encryption password programming in the INT5500CS configuration NVM (flash). Software is included in the product CD to automatically generate ODM database and test management software.

Intellon's field applications team provides support for customers using the Production test system and can advise on integration and customization questions.

The Production Test System includes:

- Control PC
- Product Test System Mainframe
- EK5500CS Reference Node (Installed in mainframe)
- EK5500CS Reference Node for calibration
- RD5500-ETH Reference Node for calibration
- INT5500CS Production Test Software including:
  o Production Test Management application
  o Automatic ODM Database Generator application
  o Sample configuration files: ODM Database, Test Configuration, and Log files
- Operation Manual
- Two Ethernet Cables
- One Serial Cable
- Documentation on building a SIMPLE Module test fixture
- Embedded Device Test Application Note
- Customer Build CD with Schematics, BOM's and Drawings

Intellon : The World Leader in Powerline Networking

✓ Patented technology chosen as the basis for HomePlug 1.0
✓ Complete HomePlug IC solution from a single supplier
✓ Only implementation proven in 500-home test
✓ Most real-world experience in Powerline networking