



HDPMU

High Density Parametric
Measurement Unit
for Teradyne FLEX



Superior Channel Density

- ▶ Add up to 192 independent PMU channels to your FLEX testers
- ▶ Flexible configurations
- ▶ Voltages of -2V to +6.5V
- ▶ Currents of 2 μ A to 32mA
- ▶ Ganged currents up to 256mA

Complete Compatibility

- ▶ Backward compatibility with existing test programs, PIBs and probe cards
- ▶ Integrated with IG-XL software
- ▶ Certified under OpenFLEX™

Reduce Your Cost of Test

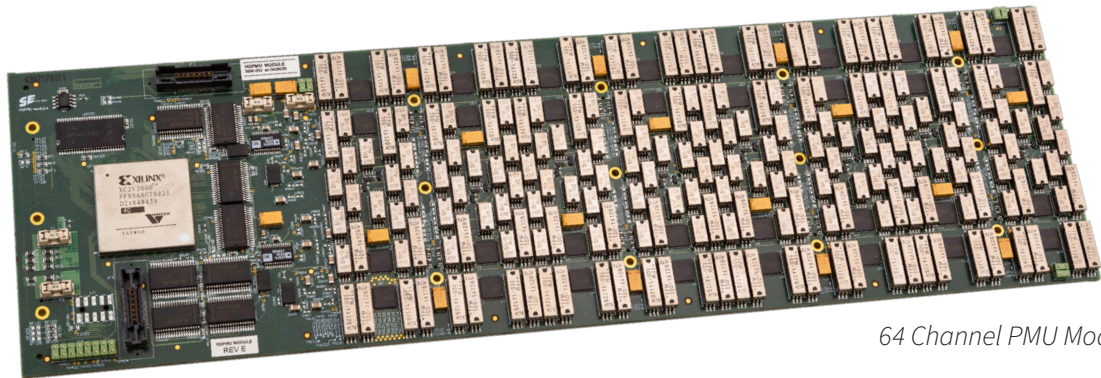
- ▶ Low cost alternative for expanding
- ▶ FLEX throughput
- ▶ Fast measurement time
- ▶ Simple programming
- ▶ Fast setup time

Expand Throughput on Current Testers

Today cost efficiency is more important than ever. Many manufacturers are working on maximizing multi-site testing. Often maximization can't be done because of limited tester resources. Salland's HDPMU gives you the ability to add up to 192 independent PMU channels on a single board. Our solution will increase parallel testing without creating complex DIB's. It offers FV, FI, MV and MI possibilities that can be used for continuity, functional or parametric tests or simply for device setup or loading. Highparallelism,fullintegrationwiththeTeradyneIG-XL Software, easy set-up and parallel measurement capability will reduce test costs significantly.

HDPMU Modules

The HDPMU instrument board consists of 3 PMU modules with 64 channels each and one expansion port. All PMU's can be used independently or in groups. 192 non-Kelvin, or 96 Kelvin channels are available. But also connecting up to 8 channels in parallel to increase the current capability is possible. Each PMU is capable of parametric or Go/NoGo testing. To increase the accuracy, "focused calibration" is available.



64 Channel PMU Module

Fast Programming

The HDPMU board has special features to speed up the programming. It's designed to minimize the software interaction and I/O bus transfers. Some of the on board functions are:

- ▶ **Local storage of setups**
Sufficient memory exists to store more than 6000 test setups
- ▶ **Hardware CAL factor compensation**
All calibration compensation is done on board per PMU
- ▶ **Channel Grouping**
Channels can be grouped together based on site and/or pin group
Broadcasting of commands to sites and groups
- ▶ **Go/NoGo testing**
- ▶ **Parallel access to 24 blocks of 8 PMUs**

All these functions support to reduce the setup and measurement times of the HDPMU board. Most functions are hidden from the application programmer and will be automatically utilized.

Test setups for all 192 PMUs can be defined upfront and loaded into the HDPMU board memory at the beginning of the test LOT. During subsequent testing only a minimal selection of a stored setup is required to load the full setup for all 192 PMUs.

Ready for the Future

The main board has space and connections available for an extension module. The optional extension module is directly connected to the 192 DIB Force lines and ground lines and can be used for any future options.

Reputation for Quality, Reliability and Support

Salland is respected by demanding semiconductor manufacturers, OSATs and ATE vendors for delivering outstanding instruments that are fully compatible with leading ATE platforms. The HDPMU is supported by Salland Engineering on a worldwide basis.

Salland Engineering is an international leading Test Technology & Engineering company specialized in solutions & services that enable semiconductor manufacturers to achieve Lower cost of test, Higher quality and reliability, Improved test floor efficiencies, Faster time to market and Streamlined supply chain. Salland Engineering is in business since 1992, headquartered in Zwolle – The Netherlands, and operates worldwide.

- ▶ Supply Chain services from **prototyping, manufacturing** up to **repair service** for **advanced measurement** solutions **on site** in The Netherlands
- ▶ **ISO 9001:2015** certified