

# X750<sup>(tm)</sup>

## High Density Device Power Supply Upgrade for Teradyne J750



### Superior Power Density

- Add up to 640 independent device power supplies to J750
- Drive current up to 8A when ganged

### Superior Accuracy

- Accurate readings of low voltages at high current
- IDDQ measurements are fast and fully automated
- 3FV and 6 MI ranges
- 16-bit resolution

### Complete Compatibility

- Backward compatibility with existing test programs, PIBs and probe cards
- Integrated with IG-XL software

### Reduce Cost of Test

- Low cost option for expanding J750
- Maximize throughput
- Reduced setup time

The J750 is the foundation for one of the most successful test platforms in ATE history, with more than 3,500 systems installed worldwide and widely available at outsourced test and assembly services (OSATs). The J750 provides a highly economical, parallel test solution for high-performance microcontrollers and consumer SOC devices.<sup>1</sup>

As operating voltages have decreased while the need for more device power supplies has increased, the “sweet spot” for J750 operation has shifted from its original targets. Salland’s X750™ back-pack solution extends the capabilities of your J750 investment to cover this new, more advantageous operating point.

With 10 additional instrument slots, X750 adds the following capabilities:

- Up to 640 independent device power supplies with voltage up to 8V
- Low current accuracy under 50nA
- 3 FV, 6 MI ranges and 16-bit resolution improve measurement accuracy
- 3 quadrant operation enables testing of on-board power supplies
- Programmable slew rates for better control of voltage overshoot



# X750

## No Sacrifices

Salland's implementation delivers all of these advantages without sacrificing any of the expectations demanding users have.

- Parallel efficiency remains very high (>99.8%)
- Existing test programs, PIBs and probe cards are backward compatible
- IG-XL™ test software for rapid program development that automatically scales for multisite applications
- No loss of digital or special slots in the J750
- Air-cooled, tester-in-a-test-head design

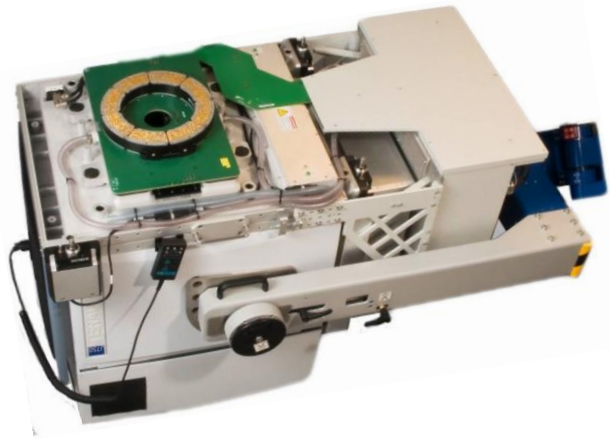


Figure 1. X750 mounted in J750 with cover on

## Superior Economics

High volume, cost-sensitive markets like microcontrollers span a wide range of applications from toys and appliances to automobile electronics. Testing microcontrollers can only be done cost effectively when testing multiple devices in parallel at high parallel efficiency. Salland's X750 expands the J750 platform capability to meet evolving critical test requirements for high parallel efficiency, high power density and high measurement accuracy at both high and low voltages.

## Reputation for Quality, Reliability and Support

The X750 builds upon the earlier success of Salland's IDPS750 that added 256 independent power supplies to the J750. Salland is respected by demanding semiconductor manufacturers, OSATs, and ATE vendors for delivering outstanding instruments that are fully compatible with leading ATE platforms. The X750 is supported by Salland Engineering on a worldwide basis.

1, <http://www.teradyne.com/J750/>

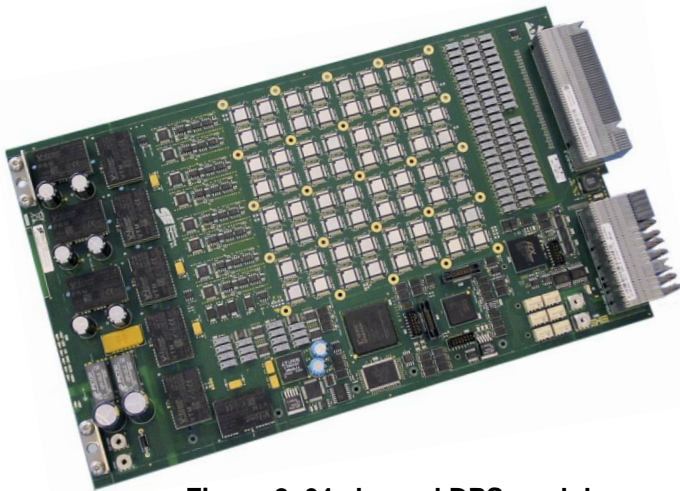


Figure 2. 64 channel DPS module

### About Salland Engineering

Salland Engineering International B.V. is a leading supplier of test solutions for the semiconductor industry. Our solutions are delivered via a unique combination of hardware, software, test applications services and in-depth expertise. We enable our customers to achieve lower cost of test, higher quality and reliability, improved test floor efficiencies, faster time to market and streamlined interfaces with their supply chain. Since 1992, Salland has delivered thousands of production proven results to leading integrated device manufacturers (IDMS), fabless semiconductor manufacturers, ATE vendors and outsourced test and assembly services (OSATs) around the world. We are consistently profitable and presently employ over 100 people. Salland is headquartered in The Netherlands with additional development centers in Texas. We have worldwide sales and support centers in Texas, California, Italy, UK, Singapore, Japan, Korea, and Taiwan. [Click here for Trademarks](#) of Salland Engineering. Visit [www.salland.com](http://www.salland.com)