

# ***The TAHOE Driver***

## ***On-board Power Supplies***

### **1:1 BIB-to-Driver configuration**

- \* Each BIB slot is its own power zone
- \* Slot-regulated power supplies
- \* Flexibility: run different product on every slot

### **Twelve 54-Amp power supplies on-board (PS1-PS12)**

- \* For use as individual high current DUT Core Voltage
- \* Can be configured in current sharing mode as six 100-Amp power supplies
- \* Individually programmable from 0.5V to 5V max.
- \* Programming resolution is 10mV
- \* Measured accuracy is 50mV or better

### **Four 12-Amp power supplies on board (PS13-PS16)**

- \* For use as shared low-current DUT voltages
- \* Individually programmable from 0.5V to 5V max.
- \* Programming resolution is 10mV
- \* Measured accuracy is 50mV or better



### ***PLUS...* on-board controls for external PS**

- \* Use any external DC power supplies
- \* On-board contactor/relay control
- \* PS17 & PS18
- \* For higher voltages up to 150V
- \* Programmable upper & lower voltage limits
- \* Programmable current limit
- \* Included in recipe power-up/down sequence

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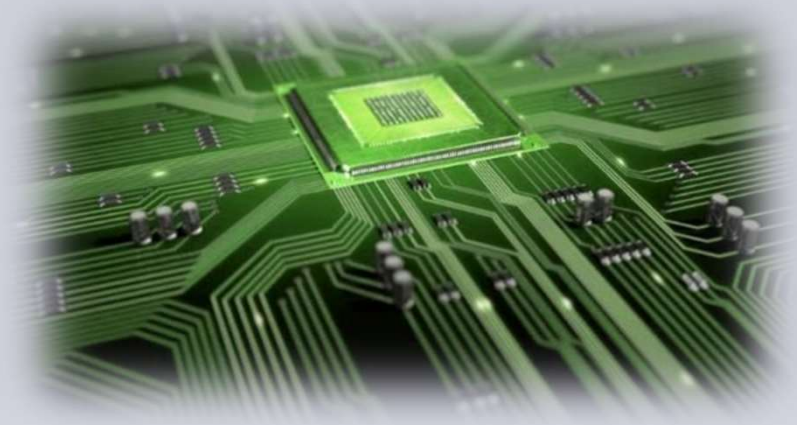
## ***Drive & Monitor Channels***

### 1:1 BIB-to-Driver configuration

- \* Each BIB slot is its own pattern zone
- \* Flexibility: run different product on every slot

### 160 Drive / Monitor Channels

- \* Individually configurable as Drive or Monitor
- \* Drive VOH programmable from 0.5V to 5.5V
- \* Up to 10 unique VOH levels
- \* Drive capacity up to 100mA (250mA burst) per channel
- \* Drive Tr/Tf <15ns on 1000pf/50Ω
- \* Vector clock frequency from 100kHz to 25MHz
- \* Vector depth of 16 million and higher (width X depth)
- \* Monitor Vthreshold of 0.25V to 2.75V
- \* Monitor & log DUT voltage, current, frequency, and temp.
- \* Monitor DUT output vectors or sign of life (pass/fail)
- \* Monitor BIB voltages and current (for safety shutdown)
- \* 8 unique timing/strobe sets, programmable to 1ns



### 4 Analog Channels

- \* Independently programmable
- \* Sine Wave from 1kHz to 20MHz
- \* Amplitude 20Vp-p (@ <1 MHz)
- \* Programmable DC offset ( $\pm 10V$ )
- \* Programmable Phase shift ( $0^\circ$  to  $359^\circ$ )
- \* Drive current 60mA static, 200mA dynamic

### 2 LVDS Channels

- \* Programmable Frequency 100MHz-200MHz