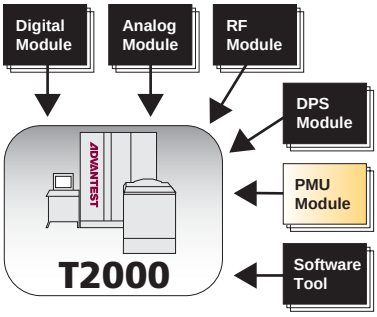
ADVANTEST

# PMU Module

## 32ch PMU Module

**Locally intelligent 32 channel VI for ≤40V or 200mA DC, analog, & power management**



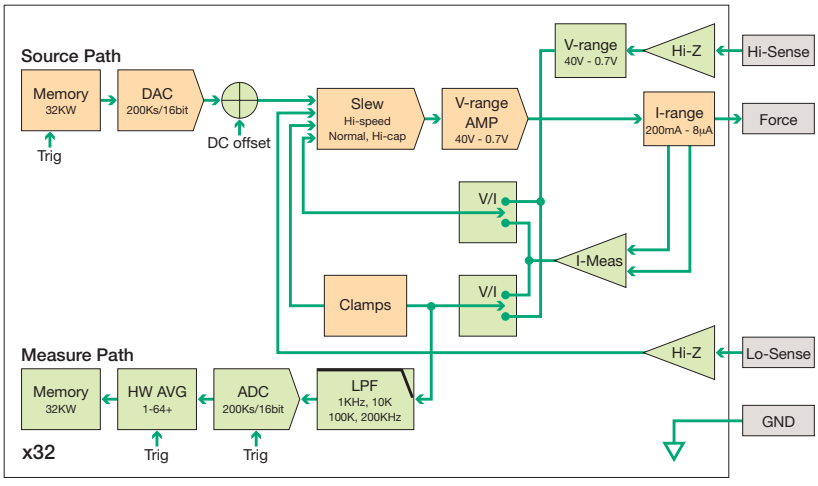

- Low Cost:
  Usability across low noise DC (Vref), INL/DNL linearity (DAC/ADC), & power (LDO, DPS, LCD drivers) with high density 32ch/module

- High Performance:
  Excellent DC testing of ADC/DAC converters with channel independent AWG & Digitizer with 32K waveform memory and hardware triggering. High performance DPS with many voltage steps under pattern control
  Fast local HW averaging for higher SNR in noisy multisite environments

- High Accuracy:
  16 bit single ended or differential
  Multiple HW filters on src/meas for exact waveform control

- Flexible:
  High density Vref generation with 50μV resolution @ 1.4V range
  ±0.7V, ±1.4V, ±2V, ±4V, ±8V, ±32V, ±40V
  ±8μA, ±80μA, ±800μA, ±8mA, ±80mA, ±200mA (gangable to 800mA)

1 of 32ch PMU32 Module Block Diagram

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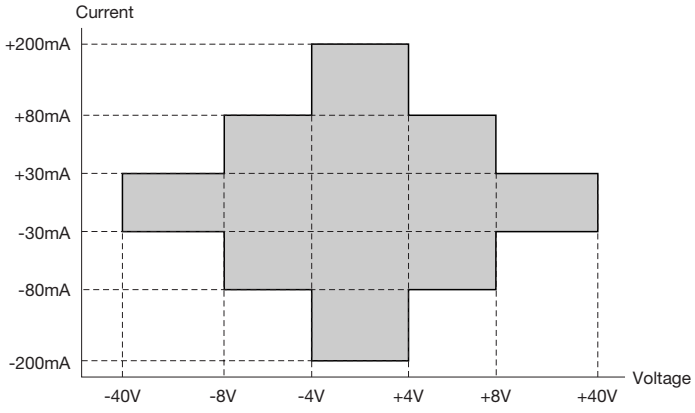
# T2000 32ch Multi-Purpose Parametric Measurement Unit Module Specifications

| | Source | Measure |
|---|---|---|
| Number of PMU Channels | 32 | |
| Voltage Ranges | ±0.7V, ±1.4V, v2V, ±4V, ±8V, ±32V, ±40V | |
| Current Ranges | ±8μA, ±80μA, ±800μA, ±8mA, ±80mA, ±200mA | |
| Gangable Current | ≤800mA (≤4 ch) | |
| Operating Modes | VSIM (Voltage Source, Current Measure) | |
| | ISVM (Current Source, Voltage Measure) | |
| | VM (Voltage Measure) | |
| Connections | Single Ended | |
| Resolution | 16 bit | 16 bit |
| Voltage Accuracy @ 2V range | ±(0.05% + 1mV) | |
| Current Accuracy @ 0.8mA | ±(0.2% + 400nA + 1μA/V) | ±(0.2% + 400nA + 100nA/V) |
| DC Linearity | ±30ppm of range | |
| Sample Rate | ≤200Ksps | ≤200Ksps |
| Waveform Memory | 32Kw | 32Kw |
| HW Linearity Average Mode | N/A | 1 to 32 samples / ≤32K stored value |
| Voltage Source rise times | Hi speed, Normal, Hi Cap | N/A |
| HW measurement LPF | N/A | 1KHz, 10KHz, 100KHz, 200KHz (off) |
| Voltage Offset Ranges | 0 to +4V | 0 to +4V |
| Clamps | voltage & current | N/A |
| Triggers | 4 Async + 4 pattern controlled per module to any channel | |

### PMU32 Current Capability over Voltage




- OPENSTAR is a registered trademark in the United States, Japan and other countries.
- Please refer to product manual for complete system specifications.
- Specifications may change without notification.

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http://www.advantest.co.jp


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