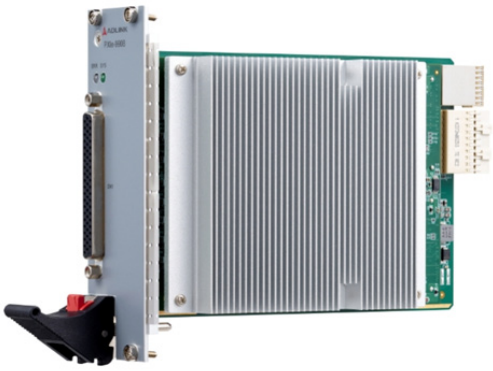
PXIe-9908

8-Channel 4-Quadrant Source Measurement Unit (SMU)

Features

- PXI Express bus
- 8-ch and cascade mode configurations available
- Supports up to ±100V and ±100mA
- High precision with 100nA current range
- Suitable for wafer probing applications



Introduction

The PXIe-9908 is a high-density SMU module designed for automated testing and mini/micro LED wafer probing applications. It supports precision sourcing and measurement up to ±100V and 100mA, with scalable configurations. With compatibility across major operating systems and programming languages, it delivers fast, accurate, and reliable testing performance tailored for automated test systems and next-generation display technologies.

Ordering Information

Source and Measurement Unit

- **PXIe-9908**
  8-ch 4-quadrant Source Measurement Unit (SMU)

Terminal Boards & Cables

- **TB-6221*1**
  Termination Board with 62-pin D-Sub Connector (cables not included)
- **ACL-10262*1**
  D-Sub 62 Pin (Male) to D-Sub 62 Pin (Female), 1M

*1 Using TB-6221 and ACL-10262 will cause unstable output and measurement when operating under low current range (below 2mA). If operation under such a low current range is required, it is recommended to design dedicated cables and connection boards.

Software Support

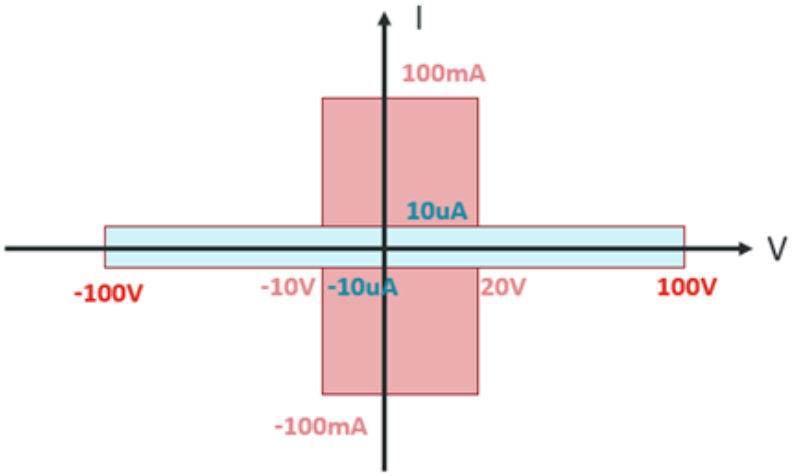
- **Operating System Support**
  Windows 10/11 x86/x64 or later
- **Driver and SDK**
  C/C++, C#, LabVIEW

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

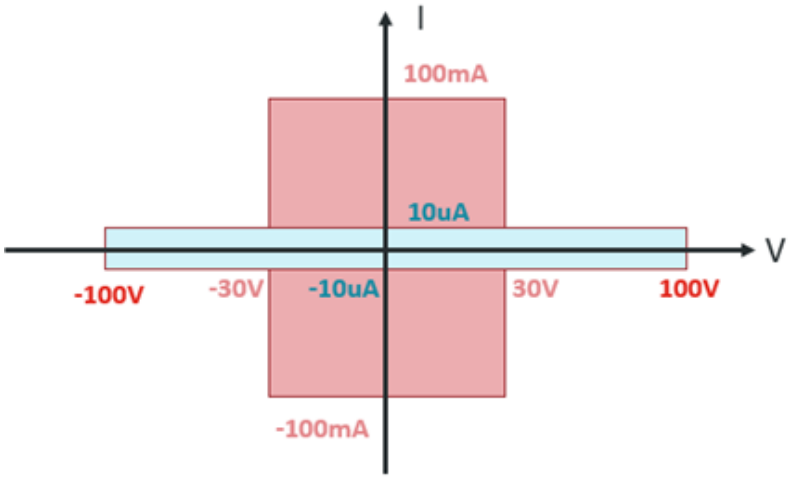
Specifications

- **Specifications are valid under the following conditions unless otherwise noted.**
  - Ambient temperature of 25°C ± 5°C
  - Calibration interval of 1 year
  - 30-minute warm-up time
  - Fans set to the highest setting when the PXI Express chassis has multiple fan speed settings

- **Quadrant Diagram**



Cascade mode



Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

• Device Capabilities

Channels	8 channels
Voltage Source Range	-10 to +20V
Voltage Measure Range	-10 to +20V
Current Source Range	100mA, 10mA, 2mA
	200uA, 40uA, 5uA, 1uA
	100nA
Current Measure Range	100mA, 10mA, 2mA
	200uA, 40uA, 5uA, 1uA
	100nA

Voltage Measure Range	±100V
Current Source Range	10 μA
Current Measure Range	10 μA

Cascade mode

Channels	4 channels
Voltage Source Range	±30V
Voltage Measure Range	±30V
Current Source Range	100mA, 10mA, 2mA
	200uA, 40uA, 5uA, 1uA
	100nA
Current Measure Range	100mA, 10mA, 2mA
	200uA, 40uA, 5uA, 1uA
	100nA

Voltage Measure Range	±100V
Current Source Range	10 μA
Current Measure Range	10 μA

• Supplemental Specifications

Max Measure Rate	1M SPS,
Max Source Update Rate	100K SPS
Source Event Delay	5us
Input Triggers	Start
	Source
	Sequency Advance
	Measure
Output Triggers	Source Complete
	Sequence Iteration Complete
	Sequence Engine Done
	Measure Complete

• Additional Specifications

Dimensions	200 mm × 130 mm × 216 mm
Front panel connector	62-position D-SUB, female
Power consumption	Typical: 3.3V/2.804mA 12V/1280.22mA
	Max: 3.3V/2.814mA 12V/4225.45mA
Operating temperature	0°C to 50°C
Storage temperature	-20°C to 70°C
Operating humidity	10% to 90%, noncondensing
Storage humidity	5% to 95%, noncondensing
Certificate	CE EN 55032/ 55035
	FCC Part 15B

All products and company names listed are trademarks or trade names of their respective companies. Updated Oct. 03, 2025. ©2025 ADLINK Technology, Inc. All Rights Reserved. All pricing and specifications are subject to change without further notice.