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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight B2200A

Emc: CISPR 11 Group 1 classAand EN50082-1 Related Module: B2211A is for B2201A only; mixed cards not supported Related Interface: B2220A low-leakage probe card interface From Keysight/Agilent B2200A fA leakage switch mainframe and B2210A module specifications. Voltage-to-common ratings and capacitance compensation limits are on the B2200/B2210 data sheet. Related Module: B2211A is for B2201A only; mixed cards not supported Related Interface: B2220A low-leakage probe card interface From Keysight/Agilent B2200A fA leakage switch mainframe and B2210A module specifications. Voltage-to-common ratings and capacitance compensation limits are on the B2200/B2210 data sheet.



MODEL

**Agilent / Keysight
B2200A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

B2200A

LISTING

<https://aumictechlabs.com/products/b2200a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight B2200A fA Leakage Switch Mainframe is a matrix switching system that automates parametric characterization of semiconductor devices while maintaining the measurement precision of parameter analyzers. It expands the capabilities of Keysight B1500A, 4155C, and 4156C analyzers, enabling fully automated test solutions for DC characterization, capacitance, and LCR measurements across multiple device nodes. Technical Specifications Switching Matrix Performance Matrix type with 100 TΩ isolation Maximum output voltage: 200 V Maximum output current: 1 A Minimum current measurement resolution: 1 fA Settling time: Under 50 fA in 2 seconds

Capacitance measurement compensation routine corrects for internal path length distortion
Input/Output Architecture 8 triaxial ports (supports up to 4 Kelvin triaxial ports) 6 coaxial BNC ports Up to four B2210A matrix cards per mainframe Scalable output configurations: x12, x24, x36, x48 via B2210A cards Kelvin measurement support on up to four SMUs Physical & Environmental Dimensions: 430 mm (W) × 320 mm (H) × 600 mm (D) Operating temperature: +5°C to +35°C Storage temperature: -20°C to +70°C Operating humidity: 5% to 70% RH (non-condensing) Power requirement: 90–264 V AC, 47–63 Hz, 2 A/200 VA maximumKey Features Switches DC current, DC voltage, capacitance, and LCR meters VXI Plug&Play drivers with integrated capacitance compensation routine on CD-ROM Front-panel keypad control or optional light pen interface Remote control via GPIB commands EasyEXPERT GUI integration for automated switch configuration Compatible exclusively with B2210A fA leakage switch modulesTypical Applications Parametric test automation for semiconductor device and module characterization, including gate leakage current measurement, multi-point DC sweeps, and capacitance profiling across multiple device pins without sacrificing measurement resolution.Compatibility & Integration Works with Keysight B1500A Semiconductor Device Analyzer, 4155C, and 4156C parameter analyzers. Integrates with EasyEXPERT and EasyEXPERT group+ software for complete parametric test environments.

B2200A Characteristics / Specifications

PARAMETER	VALUE
Model	B2200A
Instrument Type	fA leakage switch mainframe
Card Slots	4 slots for 48 mm height switch modules
Switch Module	B2210A fA leakage switch module (B2200A only)
Iv Ports	8 triaxial ports with guard (or 4 Kelvin triaxial)
Aux Ports	6 BNC ports, two dedicated CV
Output Ports Per Module	12 triaxial with guard
Maximum Outputs	48 ports with four modules
Configurations	x12, x24, x36, x48
Max Current Iv Port	1.0 A (B2210A)
Max Current Aux Port	0.5 A (B2210A)
Channel Isolation Iv	1×10^{14} ohm at 23 C plus or minus 5 C, 5 to 60 percent RH
Close Channel Residual Iv	0.6 ohm
Close Channel Residual Aux	1.5 ohm
Power Requirement	90 to 264 V continuous, 47 to 63 Hz, 2 A / 200 VA maximum
Operating Temperature	5 C to 35 C
Operating Humidity	5 to 70 percent RH non-condensing
Storage Temperature	minus 20 C to 70 C
Operating Altitude	0 to 2000 m
Dimensions	430 mmWx 320 mmHx 600 mmD Mass: approximately 14.0 kg
Safety	CSA C22.2 No. 1010.1 / IEC 1010-1
Emc	CISPR 11 Group 1 class A and EN50082-1
Control Interface	GPIB
Related Module	B2211A is for B2201A only; mixed cards not supported
Related Interface	B2220A low-leakage probe card interface

PARAMETER	VALUE
Manufacturer	Keysight Agilent HP
Humidity	5 to 70 percent RH non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to 70 C
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Safety	CSA C22.2 No. 1010.1 / IEC 1010-1
Emc	CISPR 11 Group 1 classAand EN50082-1
Control Interface	GPiB
Related Module	B2211A is for B2201A only; mixed cards not supported
Related Interface	B2220A low-leakage probe card interface
Manufacturer	Keysight Agilent HP Notes From Keysight/Agilent B2200A fA leakage switch mainframe and B2210A module specifications. Voltage-to-common ratings and capacitance compensation limits are on the B2200/B2210 data sheet.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Technical Specifications	
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Emc	CISPR 11 Group 1 class A and EN50082-1
Control Interface	GPIO
Related Module	B2211A is for B2201A only; mixed cards not supported
Related Interface	B2220A low-leakage probe card interface

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Notes
From Keysight/Agilent B2200A fA leakage switch mainframe and B2210A module specifications. Voltage-to-common ratings and capacitance compensation limits are on the B2200/B2210 data sheet.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.