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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight XGS2

Agilent Varian Keysight XGS-600 Vacuum Gauge Controller 2 Gauge Class XGS2 The Agilent XGS-600 half-rack vacuum gauge controller also covers small two-gauge installations. OEM data sheet 5994-4133EN is the same XGS-600 platform: six card slots, up to 12 gauges maximum, 8 displayed channels, 8 open-collector setpoints (20 ms max), 8 relays at 24 V / 2 A, RS-232/RS-485, 1 V/dec analog 0–10 V, 100–240 VAC 2 A 50/60 Hz, 5–40 °C, 240×128 LCD. Catalog listing XGS2 maps to two-gauge configuration class (for example one dual-convection card or one dual analog-input card) of the XGS-600. The Agilent XGS-600 half-rack vacuum gauge controller also covers small two-gauge installations. OEM data sheet 5994-4133EN is the same XGS-600 platform: six card slots, up to 12 gauges maximum, 8 displayed channels, 8 open-collector setpoints (20 ms max), 8 relays at 24 V / 2 A, RS-232/RS-485, 1 V/dec analog 0–10 V, 100–240 VAC 2 A 50/60 Hz, 5–40 °C, 240×128 LCD. Catalog listing XGS2 maps to two-gauge configuration class (for example one dual-convection card or one dual analog-input card) of the XGS-600. Two-gauge vacuum interlocks and process monitoring using convection, BA, IMG, or Agilent active gauges.



MODEL

**Agilent / Keysight
XGS2**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

XGS2

LISTING

<https://aumictechlabs.com/products/xgs2-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight XGS2 is a modular chassis platform engineered for network testing across security, performance, functional, and conformance applications. This 3RU compact system supports

Ethernet speeds from 100 Mbps to 400 Gbps, delivering flexible testing capabilities in both benchtop and rackmount environments. The XGS2 accommodates three chassis variants XGS2-SD, XGS2-SDL, and XGS2-HSL - scaled for standard and requirements.

Technical Specifications

Form Factor: 3RU (Rack Unit)

Speed Support: 100 Mbps, 1 GbE, 10 GbE, 25 GbE, 40 GbE, 50 GbE, 100 GbE, 400 GbE

Backplane: Ultra-high performance architecture with high-speed backplane for large-scale application testing

Cooling: Front-to-back airflow system

Noise Level: Up to 80 dB(A) per GR-63-CORE, Issue 1, paragraph 5.6.3

Power Supply: Redundant configuration for uninterrupted operation

Key Features

Hot-Swappable Load Modules: Active swap capability without test interruption, supporting multi-user environments

Field-Replaceable Components: Modular design enables in-field service of fan assembly, synchronization module, power supply, and chassis controller

Load Module Acceptance: XM form factor (XMFF) compatible; supports K400 and complete Novus load module line

Chassis Synchronization: STAR and Metronome synchronization available for XGS2, XGS12, AresONE, and Novus ONE PLUS integration

Typical Applications

DDoS defense validation and firewall (NGFW) optimization

Intrusion prevention system (IPS) testing

Product qualification and acceptance testing for enterprises, carriers, ISPs, and cloud service providers

Compatibility & Integration

Test Applications: IxNetwork, IxLoad, BreakingPoint, and other Keysight (Ixia) performance, functional, conformance, and security testing tools

Operating Modes: Windows 10 and IxOS Native

XGS2 Characteristics / Specifications

PARAMETER	VALUE
Model	XGS2
Base Controller	XGS-600
Instrument Type	Modular vacuum gauge controller
Gauge Class	2 gauge configuration class of XGS-600
Maximum Gauges On Platform	12 simultaneous
Displayed Channels	up to 8; large font 2 channels
Card Slots	6
Measurement Range	1×10 ⁻¹¹ Torr to atmosphere depending on card and gauge
Open Collector Setpoints	8, 20 ms max at 0.0 s delay
Contact Relays	8, 24 V at 2 A
Serial Communications	RS232 and RS485
Analog Outputs	1 V/dec LOG, 0 to 10 V FS, 200 ms update
Display	240 × 128 LCD, 200 ms update
Power Input	100 to 240 VAC, 2 A, 50/60 Hz
Ambient Temperature	5 to 40 °C
Form Factor	2U 1/2 rack
Typical Two Gauge Cards	one Dual Convection card or one Dual Analog Input card (two gauges per card)
Manufacturer	Agilent Varian Keysight
Literature	Agilent XGS-600 data sheet 5994-4133EN
Family	Agilent XGS-600 vacuum gauge controllers
Brand Lineage	Varian Agilent Keysight
System Role	two gauge class vacuum controller
Use Case	small vacuum system gauge control
Documentation Type	OEM XGS-600 data sheet
Regulatory	CE, RoHS, BV USA/Canada

PARAMETER	VALUE
Memory	FLASH non-volatile
Expansion	field install HFIG R3075301, IMG R3080301, convection R3084301, analog R3487301 cards
Vendor Path	Varian Agilent Keysight

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	
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Notes

From Agilent XGS-600 data sheet 5994-4133EN. Catalog XGS2 is the two-gauge configuration class of XGS-600 (dual convection or dual analog-input card). Exact card mix inagiven XGS2 unit is on the configuration label / XGS600H#M#C# part number.

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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NIST-traceable calibration · SAM registered ·
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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.