

**Aumictech**

Test &amp; measurement · bought, sold, repaired, calibrated

**Data Sheet**

August 15, 2026

AGILENT / KEYSIGHT

## Agilent/Keysight N2263A

HP Agilent N2263A 32 Bit Digital I/O Module for 3499 The HP/Agilent N2263A is a 32-bit digital I/O plug-in for 3499A/B/C switch/control mainframes. OEM 3499 datasheet specifications list 32 bidirectional TTL lines plus three handshake lines, plus 42 V DC open-collector outputs, 0.6 A sink per bit, and port addressing as 32-bit, two 16-bit, or four 8-bit ports. Driving external relays solenoids and microwave switches, handshake with peripherals, and mixed digital control in 3499 ATE systems. TTL or open-collector to 42 V with ESD zener protection The HP/Agilent N2263A is a 32-bit digital I/O plug-in for 3499A/B/C switch/control mainframes. OEM 3499 datasheet specifications list 32 bidirectional TTL lines plus three handshake lines, plus 42 V DC open-collector outputs, 0.6 A sink per bit, and port addressing as 32-bit, two 16-bit, or four 8-bit ports. Driving external relays solenoids and microwave switches, handshake with peripherals, and mixed digital control in 3499 ATE systems. TTL or open-collector to 42 V with ESD zener protection Five handshake modes using PCTL I/O and PFLG

**MODEL****Agilent / Keysight  
N2263A****CALIBRATION****Available on  
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****N2263A****LISTING**<https://aumictechlabs.com/products/n2263a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The Agilent/Keysight N2263A is a 32-bit digital input/output module for modular test systems requiring precise digital control and data acquisition. It has 32 bidirectional I/O lines plus 3

handshake/control lines, with flexible addressing as individual lines, two 16-bit ports, or four 8-bit ports. The module supports three I/O control modes - static, strobe, and handshake - plus five configurable handshake modes for peripheral communication. Byte-by-byte input/output configuration and selectable positive or negative logic polarity enable adaptation to diverse test requirements. Each I/O line sinks up to 0.6 A, making the N2263A suitable for controlling high-current devices including relays, microwave components, and solenoid coils. TTL-compatible I/O operates to +42 VDC line-to-chassis with integrated zener protection and ESD filtering. Handshake lines operate to +5 VDC. The module plugs into Keysight 3499A/B/C Switch/Control Systems and similar architectures.

**Technical Specifications**

32 bidirectional I/O lines with 3 handshake/control lines Individually addressable or configurable as two 16-bit ports or four 8-bit ports

Three I/O control modes: static, strobe, handshake

Five handshake modes using PCTL, I/O, and PFLG control lines

Logic polarity selectable: positive or negative

TTL-compatible I/O (standard input/output or input with open collector output)

I/O lines: +42 VDC maximum line-to-chassis; input high  $\geq 2.0$  V, input low  $\leq 0.8$  V; output high  $\geq 2.4$  V @  $\leq 10$  mA, output low  $\leq 0.8$  V @  $\leq 600$  mA; sink current to 0.6 A per bit

Handshake lines: +5 VDC maximum line-to-chassis; input high  $\geq 2.0$  V, input low  $\leq 0.8$  V; output high  $\geq 2.4$  V @  $\leq 400$   $\mu$ A, output low  $\leq 0.5$  V @  $\leq 1$  mA; short-circuit current 42 VDC), ESD protection, resettable fuse

**Key Features**

Sinks up to 0.6 A per line for direct control of external devices

Byte-by-byte I/O configuration for mixed input/output requirements

Selectable logic polarity and five handshake protocol options

Integrated overvoltage and ESD protection

**Typical Applications**

High-voltage/high-current relay control

Microwave relay and attenuator switching (8710xx, 876xx, 849xx series)

Solenoid coil actuation

Digital signal routing in automated test systems

**Compatibility & Integration**

Designed for plug-in integration into Keysight 3499A/B/C Switch/Control Systems. Supplied with screw terminal block and DIN96-to-Twin-D50 cable accessories. Product is obsolete; Keysight recommends the 34980A Multifunction Switch/Measure Unit as a current alternative.

## N2263A Characteristics / Specifications

| PARAMETER                          | VALUE                                         |
|------------------------------------|-----------------------------------------------|
| Model                              | N2263A                                        |
| Instrument Type                    | 32 bit digital I/O module                     |
| Host Mainframes                    | 3499A 3499B 3499C                             |
| Io Line Count                      | 32 bidirectional                              |
| Handshake Line Count               | 3                                             |
| Io Maximum Voltage Line To Chassis | plus 42 V DC                                  |
| Io Maximum Sink Current Per Bit    | 0.6 A                                         |
| Io Vout High                       | at least 2.4 V at 10 mA or less               |
| Io Vout Low                        | 0.8 V or less at 600 mA or less               |
| Io Vin High                        | at least 2.0 V                                |
| Io Vin Low                         | 0.8 V or less                                 |
| Handshake Maximum Voltage          | plus 5 V DC                                   |
| Handshake Vout High                | at least 2.4 V at 400 uA or less              |
| Handshake Vout Low                 | 0.5 V or less at 1 mA or less                 |
| Handshake Iout Low Shorted To 5 V  | less than 25 mA                               |
| Handshake Vin High                 | at least 2.0 V                                |
| Handshake Vin Low                  | 0.8 V or less                                 |
| Port Grouping                      | 32 bit or two 16 bit or four 8 bit            |
| Overvoltage Protection             | zener per channel above 42 V DC including ESD |
| Screw Terminal Accessory           | N2293A                                        |
| Crimp Insert Accessory             | N2296A                                        |
| Din96 Twin D50 Cable               | N2297A                                        |
| Din96 Quad D25 Cable               | N2299A                                        |
| Mechanical Package                 | 3499 plug-in module                           |

# N2263A Specifications

| PARAMETER                                            | VALUE                                                                                                                                |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| HP Agilent N2263A 32 Bit Digital I/O Module for 3499 | Overview                                                                                                                             |
| Applications                                         | Driving external relays solenoids and microwave switches, handshake with peripherals, and mixed digital control in 3499 ATE systems. |
| Key Features                                         | TTL or open-collector to 42 V with ESD zener protection                                                                              |
| Static strobe and handshake I/O modes                | N2293A screw terminal and DIN96 cable accessories                                                                                    |
| Technical Specifications                             | Model: N2263A                                                                                                                        |

# 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 list 32 bidirectional TTL lines plus three handshake lines, plus 42 V DC open-collector outputs, 0.6 A sink per bit, and port addressing as 32-bit, two 16-bit, or four 8-bit ports.

Applications

Driving external relays solenoids and microwave switches, handshake with peripherals, and mixed digital control in 3499 ATE systems.

Key Features

TTL or open-collector to 42 V with ESD zener protection

Five handshake modes using PCTL I/O and PFLG

Positive or negative logic polarity

Static strobe and handshake I/O modes

N2293A screw terminal and DIN96 cable accessories

Technical Specifications

### Technical Specifications

| PARAMETER                          | VALUE                                         |
|------------------------------------|-----------------------------------------------|
| Model                              | N2263A                                        |
| Instrument Type                    | 32 bit digital I/O module                     |
| Host Mainframes                    | 3499A 3499B 3499C                             |
| Io Line Count                      | 32 bidirectional                              |
| Handshake Line Count               | 3                                             |
| Io Maximum Voltage Line To Chassis | plus 42 V DC                                  |
| Io Maximum Sink Current Per Bit    | 0.6 A                                         |
| Io Vout High                       | at least 2.4 V at 10 mA or less               |
| Io Vout Low                        | 0.8 V or less at 600 mA or less               |
| Io Vin High                        | at least 2.0 V                                |
| Io Vin Low                         | 0.8 V or less                                 |
| Handshake Maximum Voltage          | plus 5 V DC                                   |
| Handshake Vout High                | at least 2.4 V at 400 uA or less              |
| Handshake Vout Low                 | 0.5 V or less at 1 mA or less                 |
| Handshake Iout Low Shorted To 5 V  | less than 25 mA                               |
| Handshake Vin High                 | at least 2.0 V                                |
| Handshake Vin Low                  | 0.8 V or less                                 |
| Port Grouping                      | 32 bit or two 16 bit or four 8 bit            |
| Overvoltage Protection             | zener per channel above 42 V DC including ESD |
| Screw Terminal Accessory           | N2293A                                        |

| PARAMETER              | VALUE               |
|------------------------|---------------------|
| Crimp Insert Accessory | N2296A              |
| Din96 Twin D50 Cable   | N2297A              |
| Din96 Quad D25 Cable   | N2299A              |
| Mechanical Package     | 3499 plug-in module |

Notes  
From HP/Agilent 3499 Switch/Control System data sheet N2263A specification block. Confirm terminal block versus cable accessory on the installed unit.

### Available from Aumictech

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

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

#### Aumictech

788 S 500 E, Pleasant Grove, UT 84062  
[sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341  
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·  
30-day returns  
NAICS 423690 · 811210 · 541380  
Generated August 15, 2026

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