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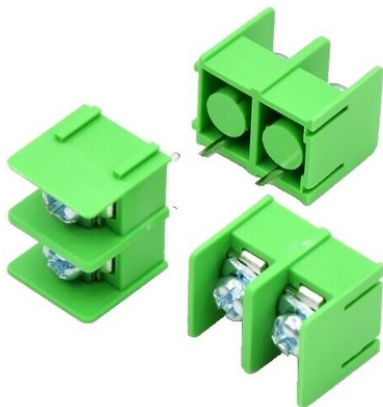
Data Sheet

August 15, 2026

AGILENT

Agilent 44474A card with 44474A Connector Terminal Relay Block .

HP Agilent 44474A 16 Bit Digital Input Output Module for 3488A The HP 44474A is the 16-bit digital input/output module for the 3488A Switch/Control Unit (catalog option 014). OEM 3488A tables list 16 bidirectional I/O lines plus 4 TTL handshake lines. Maximum voltage is +30 V dc line-to-chassis. Outputs are V(high) greater than 2.4 V and V(low) less than 0.4 V, with I(low) maximum 125 mA at V(low) less than 1.25 V, fused at 250 mA. Inputs recognize V(high) greater than 2 V and V(low) less than 0.8 V. Digital inputs can sense contact closures to ground; each channel current-sinks remote relays such as the HP 33311 coaxial switches. Lines may be addressed bit-by-bit, as two 8-bit ports, or as one 16-bit word. External increment advances the 3488A to the next stored configuration on a falling TTL edge; Channel Closed pulses when a new configuration is complete. The HP 44474A is the 16-bit digital input/output module for the 3488A Switch/Control Unit (catalog option 014). OEM 3488A tables list 16 bidirectional I/O lines plus 4 TTL handshake lines. Maximum voltage is +30 V dc line-to-chassis. Outputs are V(high) greater than 2.4 V and V(low) less than 0.4 V, with I(low) maximum 125 mA at V(low) less than 1.25 V, fused at 250 mA. Inputs recognize V(high) greater than 2 V and V(low) less than 0.8 V. Digital inputs can sense contact closures to ground; each channel current-sinks remote re



MODEL

Agilent 44474A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

44474A

LISTING

<https://aumictechlabs.com/products/44474a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent 44474A Digital I/O Module, paired with the 44474A Connector Terminal Relay Block, provides 16 bi-directional data lines and 4 control/handshaking lines for signal routing in data acquisition and automated test systems. The module supports flexible addressing - individual bit selection, two independent 8-bit ports, or a single 16-bit word - enabling simultaneous input and output operations. TTL-compatible inputs and open-collector outputs deliver 0.125 A current sink capability per I/O line. The 44474A integrates into Agilent 3499A/B/C mainframes and the 3488A Switch/Control Unit (Option 014), making it suitable for high-density switching platforms and bench test configurations.

Technical Specifications

Data Lines: 16 bi-directional lines with TTL input compatibility and open-collector output

Output voltage (high): $>2.4\text{ V}$ @ $I < 8\text{ mA}$

Output voltage (low): $<0.4\text{ V}$ @ $I 2.0\text{ V}$

Input voltage (low): $<0.8\text{ V}$

Maximum line-to-chassis voltage: $+30\text{ V DC}$

Current sink capability: Up to 0.125 A at $V_{out} 2.4\text{ V}$ @ $I < 400\text{ }\mu\text{A}$

Output voltage (low): $<0.5\text{ V}$ @ $I 2.0\text{ V}$

Input voltage (low): $<0.8\text{ V}$

Maximum line-to-chassis voltage: $+5\text{ V DC}$

Key Features

Three addressing modes: individual bits, dual 8-bit ports, or single 16-bit word

Simultaneous input and output operation capability

TTL-level signal compatibility

44474A Connector Terminal Relay Block: $8 \times 3 \times 2\text{ in}$, 0.5 lbs

Typical Applications

Automated test equipment and bench configurations

High-density switching platforms requiring flexible signal routing

General-purpose digital control and monitoring in data acquisition systems

Compatibility & Integration

Designed for Agilent 3499A/B/C mainframes and available as Option 014 for the 3488A Switch/Control Unit.

Note: This product is obsolete per manufacturer designation; availability through third-party suppliers.

44474A Characteristics / Specifications

PARAMETER	VALUE
Model	44474A
Instrument Type	Digital input/output module
Host Mainframe	3488A Switch/Control Unit
Catalog Code	014 on 3488A
Channel Count	16 bidirectional I/O lines
Handshake Lines	4 TTL compatible handshake lines
Maximum Voltage	+30 V dc line to chassis
Output High	greater than 2.4 V
Output Low	less than 0.4 V
Sink Current	125 mA maximum at V(low) less than 1.25 V
Fuse Rating	250 mA
Input High	greater than 2 V
Input Low	less than 0.8 V
Addressing	bit by bit, two independent 8-bit ports, or one 16-bit word
External Increment	falling edge TTL pulse advances next programmed configuration
Channel Closed	TTL pulse indicates completion of new configuration
Related Mux	44470A 10-channel relay multiplexer
Related Gp Relay	44471A 10-channel general purpose relay
Related Matrix	44473A 4×4 matrix switch
Related Form C	44477A 7-channel Form-C relay
Form Factor	3488A plug-in module
Manufacturer	HP Agilent Keysight
Use Case	digital sense and relay drive in 3488A
Control	3488A HP-IB
Literature	HP 3488A Switch/Control Unit data sheet 44474A option 014

PARAMETER	VALUE
Family	3488A switch modules
Documentation Type	OEM 3488A module table
Brand Lineage	Hewlett Packard Agilent Keysight
System Role	digital I/O and handshake
Screw Terminal	removable screw terminal connector included on 3488A modules

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 HP 3488A option 014 / 44474A Digital I/O tables (16 bidirectional lines, 4 handshake, +30 V, 125 mA sink, 250 mA fuse, 2.4/0.4 V outputs, 2/0.8 V inputs). Open-collector timing and isolation are on the 44474A specification page of the 3488A manuals.

Ordering Information

OPTION	DESCRIPTION
Option 014	Family: 3488A switch modules

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

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788 S 500 E, Pleasant Grove, UT 84062
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<https://aumictechlabs.com>

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30-day returns
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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.