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Data Sheet

August 13, 2026

AGILENT / HP

Agilent/HP 44474A Rev B 16-Bit Digital I/O Module Card Board 44474-66501

The Agilent/HP 44474A is a 16-bit digital I/O module designed for data acquisition and control applications. This module provides a reliable interface for connecting digital devices to a computer system. It features solid construction and is ideal for industrial and laboratory environments requiring precise digital signal handling.



MODEL

**Agilent / HP
44474A / 44474-
66501**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**44474A / 44474-
66501**

LISTING

[https://aumictechlabs.c
om/products/44474a-4
4474-66501-2/](https://aumictechlabs.com/products/44474a-44474-66501-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/HP 44474A Rev B is a 16-bit digital I/O module card for the 3499A/B/C mainframe family, delivering flexible data acquisition and control in industrial and laboratory environments. It has 16 bi-directional data lines plus 4 control/handshaking lines with independent addressing by individual bits, 8-bit ports, or 16-bit word. Each I/O line sinks up to 0.125 A from external devices, making it suitable for direct interfacing with industrial logic and sensor networks. Technical Specifications Digital I/O Lines: 16 bi-directional with individual, 8-bit port, or 16-bit word addressing Control/Handshaking Lines: 4 dedicated lines Input Levels (TTL): Vin (high) > 2.0 V; Vin (low) 2.4 V @ I < 8 mA; Vout (low) < 0.4 V @ I 2.4 V @ I < 400 µA; Vout (low) < 0.5 V @ I < 2

mA Current Sink Capability: Up to 0.125 A from external devices at $V_{out} < 1.25$ V Maximum Line Voltage (Digital I/O): +30 V DC Maximum Line Voltage (Handshake): +5 V DC Connector: Screw terminals included; optional HP 44484A terminal block

Key Features TTL-compatible input and open-collector output architecture Flexible addressing - select individual bits, dual 8-bit ports in mixed I/O mode, or single 16-bit word High current sink capability enables direct control of relays, solenoids, and indicator lamps Independent port configuration supports simultaneous input and output operations Accommodates ± 30 V transients on digital lines for industrial noise immunity

Typical Applications Automated test equipment (ATE) with distributed I/O control Sensor and switch interfacing in data acquisition systems Relay and solenoid driving in laboratory automation Mixed-signal control systems requiring independent input/output channels

Compatibility & Integration Installs directly into Agilent/HP 3499A, 3499B, and 3499C mainframes. User's Manual, Service Manual, and Quick Reference Guide for the 3499A/B/C platform available.

Features & description

From manufacturer datasheet

Features

- 16 bidirectional data lines as bits two 8 bit ports or one 16 bit word
- 4 TTL compatible handshake and control lines
- Open collector outputs with fuse protection
- Screw terminal connector included with the module
- Option 014 plug-in for the HP Agilent 3488A Switch Control Unit

Applications

- Digital bit and word I/O in 3488A automated switch systems
- Sensing ground contact closures and TTL status lines
- Driving external RF coaxial switch coils
- Parallel handshaking with fixtures via External Increment and Channel Closed

44474A4447466501 Characteristics / Specifications

PARAMETER	VALUE
Model	44474A
Manufacturer	Agilent / Hewlett Packard
Instrument Type	Digital Input Output Module
Alias	44474A; 44474-66501; HP 44474A; Agilent 44474A
Host instrument	3488A Switch Control Unit
IOdata lines	16 bidirectional
Handshake control lines	4 TTL compatible
Addressing modes	individual bit; two 8 bit ports; one 16 bit word
Maximum voltage line to chassis	plus 30 Vdc
OutputVhigh	greater than 2.4 V
OutputVlow	less than 0.4 V
Output sink currentIlow maximum	125 mA atVlow less than 1.25 V
Output fuse rating	250 mA
InputVhigh	greater than 2 V
InputVlow	less than 0.8 V
Input use case	sense contact closures to ground
External Increment	advances next programmed configuration on falling TTL edge
Channel Closed	TTL pulse indicates configuration complete
Output type	open collector
Relay drive examples	HP 33311 series coaxial switches
Connector	screw terminal included
Form	plug-in module for 3488A
Related mux module	44470A 10 channel relay multiplexer
Related GP relay	44471A 10 channel general purpose
Related VHF switch	44472A dual 4 channel VHF

PARAMETER	VALUE
Related matrix	44473A 4×4 matrix
Related breadboard	44475A
Related GP switch	44476A
Publication	Agilent 3488A datasheet Opt 014 section Notes Specs from Agilent/HP 3488A Switch/Control Unit datasheet for Opt 014 / 44474A. Confirm terminal block and fuse integrity on board 44474-66501.

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	
Specifications	
PARAMETER	VALUE
Model	44474A
Manufacturer	Agilent / Hewlett Packard
Instrument Type	Digital Input Output Module
Alias	44474A; 44474-66501; HP 44474A; Agilent 44474A
Host instrument	3488A Switch Control Unit
Option code: Opt 014	
Specifications	
PARAMETER	VALUE
IOdata lines	16 bidirectional
Handshake control lines	4 TTL compatible
Addressing modes	individual bit; two 8 bit ports; one 16 bit word
Maximum voltage line to chassis	plus 30 Vdc
OutputVhigh	greater than 2.4 V
OutputVlow	less than 0.4 V
Output sink currentIlow maximum	125 mA atVlow less than 1.25 V
Output fuse rating	250 mA
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External Increment	advances next programmed configuration on falling TTL edge
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PARAMETER	VALUE
Related mux module	44470A 10 channel relay multiplexer
Related GP relay	44471A 10 channel general purpose
Related VHF switch	44472A dual 4 channel VHF
Related matrix	44473A 4x4 matrix
Related breadboard	44475A
Related GP switch	44476A
Publication	Agilent 3488A datasheet Opt 014 section

Notes
Specs from Agilent/HP 3488A Switch/Control Unit datasheet for Opt 014 / 44474A. Confirm terminal block and fuse integrity on board 44474-66501.

Ordering Information

OPTION	DESCRIPTION
Option 014	for the 3488A Switch/Control Unit. It provides 16 bidirectional TTL-compatible open-collector I/O lines plus 4 handshake/control lines for sensing contact closu

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