KEYSIGHT TECHNOLOGIES (AGILENT HP)

44474A

The Keysight 44474A (formerly Agilent/HP 44474A) is a 16-bit digital input/output module designed for use with the 3488A Switch/Control Unit. It provides 16 bidirectional, TTL-compatible data lines that can be addressed individually, as two 8-bit ports, or as a single 16-bit word, along with 4 control and handshaking lines. Featuring open-collector outputs capable of sinking up to 125 mA and supporting external voltages up to 30 V, the module comes equipped with a screw terminal block for secure and convenient connectivity.

SPECIFICATIONS

General

Interfaces	16-bit bidirectional digital I/O, 4 control/handshake lines, screw terminals

Physical

Operating Temperature	0 to 55 °C °C

System & Chassis Architecture

Compatible Mainframe	Agilent / HP 3488A Switch/Control Unit
Form Factor	Plug-in module

Digital I/O Specifications

Number of Data Lines	16 bi-directional
Control & Handshake Lines	4 lines
Logic Compatibility	TTL compatible
Output Configuration	Open collector
Input Configuration	TTL compatible
Maximum Sink Current	125 mA per line
Maximum External Voltage	30 V DC
Addressing Modes	Individual (bit-by-bit), dual 8-bit ports, or single 16-bit word

Connectivity & Host Interfaces

Connection Type	Screw terminal (included)

Electrical Specifications

Input High Voltage (VIH)	>= 2.0 V
Input Low Voltage (VIL)	<= 0.8 V
Output High Voltage (VOH)	>= 2.4 V (@ -400 µA)
Output Low Voltage (VOL)	<= 0.5 V (@ 125 mA)
Handshake Output Low Voltage (VOL)	<= 0.5 V (@ 8 mA)

Power Requirements

Power Consumption	250 mA (maximum) @ +5 VDC (from mainframe)

Configuration

Port Configuration	Two independent 8-bit ports

Electrical

Built-in Power Output	+5 VDC at 150 mA maximum
Pull-up Resistors	4.7 kΩ connected to +5 V (removable via internal jumpers)
Maximum Port Sink Current	1.0 A (for each 8-bit port)

Control

Handshake Modes	Static, Strobe, and Handshake modes

TECHNOLOGY

TTL Digital I/O

APPLICATIONS

Automated test system control, digital pattern generation, and handshake interfacing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.