

KEYSIGHT TECHNOLOGIES (AGILENT HP)

16702A

The Keysight (formerly Agilent HP) 16702A is a high-performance, 5-slot logic analysis system mainframe designed for complex digital system debugging. It features a built-in 9.1-inch color LCD display, integrated touchscreen, and operates on an HP-UX platform with a PA-RISC processor. It supports up to five measurement modules and two emulation modules, allowing for deep, time-correlated state and timing analysis across up to 1,020 channels.

SPECIFICATIONS

General

Interfaces	10/100Base-TX LAN, HP-IB (IEEE 488.2), RS-232, Parallel (Centronics), VGA out, PS/2 Keyboard, PS/2 Mouse
Display	9.1-inch color active-matrix LCD with 800 x 600 SVGA resolution

Physical

Power Supply	115/230 VAC auto-selecting, 48 - 66 Hz, 615 W maximum
Operating Temperature	0 to +50 °C
Dimensions (W×H×D)	425 mm × 331 mm × 400 mm mm

Mainframe Characteristics

Number of Measurement Module Slots	5
Number of Emulation Module Slots	1
Built-in Touchscreen	Yes, resistive touch
Integrated Pointing Device	Front-panel Elastic Glidepad
Operating System	HP-UX
Processor Type	PA-RISC
Built-in Storage Media	Internal Hard Disk Drive, 3.5-inch Floppy Drive, internal CD-ROM

State & Timing Acquisition

Maximum State Clock Speed	Up to 400 MHz (module dependent)
Maximum Timing Sampling Speed	Up to 4 GHz (module dependent)
Maximum System Channels	Up to 1020 channels (module and configuration dependent)

Triggering & Sequencing

External Trigger Input	BNC, TTL compatible
External Trigger Output	BNC, TTL compatible

Connectivity & I/O Interfaces

LAN Speed	10/100 Mbps auto-sensing
Serial Connector	9-pin D-sub (DB-9)
Parallel Connector	25-pin D-sub

Environmental & Compliance

Storage Temperature Range	-40 °C to +75 °C
Maximum Operating Altitude	3,000 m (10,000 ft)
Maximum Storage Altitude	15,300 m (50,000 ft)

System Hardware

System RAM	128 MB (standard) / up to 384 MB (option dependent)
CD-ROM Drive	24x maximum speed
Floppy Drive	3.5-inch, 1.44 MB

Rear Panel Connections

External Video Port	15-pin VGA
External Video Resolution	Up to 1280 x 1024
GPIO Interface	IEEE-488
PS/2 Ports	2 (1 keyboard, 1 mouse)
Target Control Port	2-pin connector, open-collector output

Power Requirements

AC Input Voltage	115 / 230 VAC
AC Input Frequency	48 - 66 Hz
Maximum Power Consumption	615 W

Environmental

Operating Humidity Range	20% to 80% RH (non-condensing)
Non-Operating Humidity Range	5% to 90% RH

System Performance

Intermodule Bus Time Correlation Resolution	2 ns
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Inputs & Outputs

Audio Ports	3.5 mm front-panel headphone jack and built-in speaker
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Compliance & Safety

EMC Compliance	CISPR 11 / EN 55011 Group 1 Class A
Safety Compliance	IEC 61010-1 / EN 61010-1, CSA C22.2 No. 1010.1

TECHNOLOGY

Logic Analyzer Mainframe

APPLICATIONS

Digital system debugging, hardware-software integration, bus analysis, and emulation

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