

KEYSIGHT TECHNOLOGIES (AGILENT HP)

3853A

The Keysight Technologies (formerly Agilent / HP) 3853A is a 10-slot extender mainframe designed to expand the channel capacity of the HP 3852A Data Acquisition and Control System. It allows high-speed physical expansion of the system backplane to accommodate additional measurement and control plug-in modules.

SPECIFICATIONS

General

Interfaces	HP 3852A/3853A system extender interface (via extender cable accessory)
Display	Front panel status LEDs (Power, Extender, Error/Fail)
Cooling	Forced air via internal fan

Physical

Power Supply	100 V / 120 V / 220 V / 240 V AC (selectable), 48 to 66 Hz
Operating Temperature	0 - 55 °C °C
Dimensions (W×H×D)	425 mm × 352 mm × 574 mm mm
Weight	19.1 kg kg

System Architecture & Capacity

Number of Module Slots	10
Compatible Base Mainframe	HP 3852A Data Acquisition/Control Unit
Maximum Extender Mainframes per System	7
Maximum Total System Slots	78 (8 in base HP 3852A + 10 in each of 7 HP 3853A extenders)

Supported Plug-In Modules

Supported Plug-In Modules	All HP 447XX series multiplexer, switch, digital I/O, counter, and D/A modules
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Physical Specifications

Form Factor	Rackmount or benchtop
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Environmental

Storage Temperature	-40 °C to 75 °C
Operating Humidity	Up to 95% RH @ 40 °C
Operating Altitude	up to 4600 m
Storage Altitude	up to 15300 m

Compliance

Safety Compliance	Class I IEC 348, UL 1244, CSA 556B
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TECHNOLOGY

Data Acquisition / Backplane Expansion

APPLICATIONS

High-channel-count industrial data acquisition, automated testing, and control systems.

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