![ARDENT STORAGE logo]

P8100 - PCIe/NVMe Tester

8 PORT PCIe DEVICE

PCIe Gen 3 SUPPORT

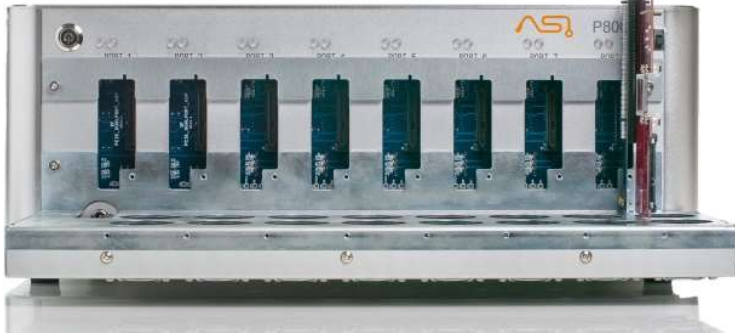2.5" SFF8639, PCIe EDGE CARD, M.2 CONFIGURABLE

HOT PLUG, DUAL PORT

NVMe COMMANDS AND POWER CONTROL

2.5" SFF8639 (U.2) Loader

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P8100-PCIePCIe-Single/Dual Port (NVMe)

[Single or Dual Port PCIe-SFF8639 Pass-Thru Tester]

Note: image above may show a varied configuration or optional parts.

Key Features:

- P81000: 8 port single port support with PCIe card loader kit
- P8100-D: 8 dual port support with PCIe card loader kit
- PCIe-Gen3 4 lanes per port (gen3 2lanes for dual port tester)
- Support Gen1, Gen2, Gen3 auto select or manual select
- Exchangeable loader adapter technology
- Loader Configurations available
  - [default] 2.5" SFF8639 (HDD/SSD form factor) adapter
  - [optional] PCIe-edge card adapter
  - [optional] M.2 card adapter

- PMU (Power Management Unit) – programmable via USB or Ethernet
  - Drive insertion detection circuitry
  - Power on/off control
  - LED control
- Basic PMU and NVMe test tool available upon request

Specifications

Product SKUs

P8100-PCIe	8 bay SFF8639 system with PCIe-NVMe support
P8100-PCIe-D	8 bay SFF8639 system with PCIe-NVMe dual port support

Form Factor

21.9" Depth Desktop Chassis – 19" 3U form factor

Motherboard

M/B: LGA 1150 with Z87 chipset
CPU: i5-4430 (4 core 3.1Ghz), RAM: DDR3 8G

Dimensions

Dimensions	P8000/D
Width	• 451mm
Height	• 133mm
Depth	• 356mm
Gross weight	• ~20kg
Color	• Grey/Silver

Drive Bays

Port Bay	• 8x Hot-swap PCIe Pass-Thru Bay with optional adapters for PCIe-edge card or M.2 • Default configuration: 2.5" SFF8639 SSD/HDD

Backplane

SFF8639 (PCIe Pass-Thru) – can be further customized per vendor requirement (optional)

Peripheral Drives (boot drive)

SSD	• Slim SSD

System Cooling

Fans	• 4x 40x40x20mm PWM fans • Motor: 4 poles brushless DC motor • Frame & Impeller: Plastic (UL 94V-0)

Power Management Unit (PMU)

4 port power control unit: individual port power on/off and LED control. Circuitry for auto drive insertion detection for writing automated control SW

Input	15v to 24v
3.3v (out)	4 Amp (per port)
5v (out)	4 Amp (per port)
12v (out)	4 Amp (per port)

SNMP

Single Output with PFC Function (P1000: 320W)

- Universal AC input / full range
- Built-in active PFC function, PF > 0.93
- Protections: short circuit / overload / over voltage / over temperature
- Built-in cooling fan speed control
- Built-in constant limiting circuit
- Built-in fan speed control
- LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at PFC:67KHz PWM:134KHz

Operating temperature

Max: 70C

Form Factor

Buttons	• System Power On/Off button

LEDs	• Power status LED (on power on/off switch)
	• Programmable LEDs (per port)
	   o DUT Power On/Off LEDs
	   o DUT Active LED (programmable)