

# Adaptec SmartRAID 3101-4i

Kod producenta: 2291700-R



Typ kontrolera	SAS/SATA RAID
Przepustowość	12Gb/s
Ilość kanałów wew.	4
maks. ilość urządzeń SAS	256
Poziomy RAID	0,1,5,6,10,50,60,ADM
Złącza wew.	1x SFF-8643
Pamięć cache	1024 MB
Typ złącza magistrali	PCI Express 3.0 x8
Format	Low Profile
Waga	360g
Wyposażenie	Additional low profile vented bracket
Gwarancja	36 m-cy

The 12 Gbps Adaptec SmartRAID 3101-4i RAID adapter has internal SAS/SATA ports in a x8 PCIe Gen 3 low-profile, MD2 form factor. Microchip's industry leading Smart Storage stack delivers maximum reliability and best-in-class performance that all RAID levels come to expect, plus unique features like Mixed Mode support (RAID and HBA devices can be used simultaneously), adapter power management (reduces power consumption up to 30 percent), and Advanced Data Management (ADM) features that allow data migration from existing RAID arrays.

With broad operating system support and ecosystem compatibility, SmartRAID adapters are easy to implement and scale, and the unified maxView management tools and drivers across the Microchip HBA, RAID, and expander solutions enable easy manageability across the entire product line.

SmartRAID 3101 RAID adapters are ideal solutions for high performance enterprise servers that require maximum connectivity and security.

## Product Features

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- 4 internal native SAS/SATA ports in low-profile/ MD2 form factor
- RAID levels: 0, 1, 5, 6, 10, 50, 60, 1 ADM and 10 ADM
- Supports simultaneous use of RAID and raw devices (mixed mode)
- Industry's lowest-power 28 nm SmartROC SAS/SATA protocol controller
- Quality and reliability through the unified, hardened Smart Storage stack, which is deployed in over 30 million servers
- 1.5M 4K random read IOPS
- 40% lower power than previous generations
- 12 Gbps SAS data rates using mini-SAS HD connectors
- 12 Gbps and 6 Gbps compatibility with HDD or SSD SAS/ SATA devices
- Familiar GUI, CLI, and pre-boot tools ensures consistent performance and user experience across all

## products

- Proven compatibility with existing Adaptec Smart solutions, multiple operating systems, servers, enclosures, SSDs, HDDs, and LTO tape drives
- CPU Platform Diversity -Support for Intel, AMD, and Cavium ThunderX2 (ARM)
- Open Source Management tools
  - Mixed mode allows devices connected to the same adapter to be used in RAID and HBA modes simultaneously
  - Adapter dynamic power management to save up to 30% power
  - Support for up to 256 SAS/SATA target devices (238 SSD/HDDs maximum support and remainder are reserved for expanders and enclosure management)
  - Support for native 4K sector SAS/SATA devices in addition to 512-byte sector devices
  - RAID ADM through triple mirroring, move array, and split mirroring
  - Quick initialization
  - Online capacity expansion
  - Copyback hot spare
  - Dynamic caching algorithm
  - Native Command Queuing (NCQ)
  - Background initialization
  - Hot-plug drive support
  - RAID level migration
  - Hot spares—global, dedicated, and pooled
  - Automatic/manual rebuild of hot spares
  - SES and SGPIO enclosure management
  - Configurable stripe size
  - S.M.A.R.T. support
  - BMC support
  - Dynamic sector repair
  - Staggered drive spin-up
  - Bootable array support
  - Support for tape devices, autoloaders
  - Smart PQI driver with multip queue and MSI-X support for all device drivers for all supported OSes
  - Secure boot support for the uEFI host BIOS
  - USB image available on [storage.microsemi.com/en-us/support/start](https://www.superstorage.com/en-us/support/start) to boot maxView GUI from any USB device for enhanced GUI-based setup and offline maintenance
  - maxView Storage Manager
  - ARCCONF Command-line interface
  - BIOS Configuration Utility (CTRL+A)
  - ROM-Based uEFI BIOS Configuration Utilities
  - Microsoft Windows, Red Hat, SuSE, Debian, Oracle, CentOS, Ubuntu, VMware ESXi, FreeBSD, Solaris, Citrix Xen Server, and open-source Linux drivers
  - Intel, AMD, Cavium ThunderX2
  - 2.535" H × 6.6" L (64 mm × 167 mm)
  - 50°C ambient and 55°C with 200 LFM airflow
  - CE, FCC, UL, C-tick, VCCI, KCC, CNS
  - RoHS
  - 3 years

Strona firmowa produktu: <https://www.superstorage.pl/adaptec-smartraid-3101-4i-p-4544.html>

