Adaptec SmartRAID 3102E-8i

Kod producenta: 2304200-R

Typ kontrolera	SAS/SATA RAID
Przepustowość	12Gb/s
Ilość kanałów wew.	8
Ilość kanałów zew.	0
Poziomy RAID	0,1,10
Złącza wew.	2x SFF-8643
Pamięć cache	2048 MB
Typ złącza magistrali	PCI Express 3.0 x8
Format	Low Profile
Gwarancja	36 m-cy

The SmartRAID 3102E-8i 12 Gbps PCIe Gen 3 SAS/SATA RAID adapter delivers an entry-level solution with the robustness and performance of hardware RAID and the industry leading power of the SmartRAID 3100 series. This solution provides significant performance acceleration over other entry-level adapter card solutions through a built-in 2 GB DRAM cache , thus delivering a performant hardware RAID solution for cost-sensitive platforms that don't require the full capabilities of our full featured SmartRAID adapters. The SmartRAID 3102E-8i supports RAID levels: RAID 0, 1, 1 ADM, 10, and 10 ADM.

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 Adaptec HBA, RAID, and expander solutions enable easy manageability across the entire product line.

SmartRAID 3102E-8i RAID adapters are ideal solutions for of industrial PC workstations or entry-level servers that require connectivity to 6G SATA or SAS-3 drives for redundant boot support and I/O intensive applications such as databases or video editing.

Product Features

- Accelerates storage with 2 GB of high-speed DRAM cache
- RAID levels: 0, 1, 10, 1 ADM and 10 ADM
- Supports simultaneous use of RAID and raw devices (mixed mode)
- Up to 8 native SAS/SATA ports in a LP/MD2 design
- 12 Gbps and 6 Gbps compatibility with HDD or SSD SAS/ SATA devices
- 12 Gbps throughput per SAS port using mini-SAS HD connectors
- 1.6M random read 4 KB IOPS2
- 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 30M servers
  - 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 SAS and SATA direct attached target devices
- 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
- 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 www.adaptec.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
- BIOS Configuration Utility (CTRL+A)
- Event Monitor
- ROM-Based uEFI BIOS Configuration Utilities
- Microsoft Windows Server, Windows 10, Windows 8.1, Red Hat Enterprise Linux, CentOS, SuSE Linux Enterprise Server, Ubuntu Linux, Debian Linux, Oracle Linux, Citrix XenServer, Solaris, FreeBSD, VMware ESXi, and open-source Linux drivers. The latest drivers are available at www.adaptec.com/en-us/support/start. Supports open-source Linux drivers and inbox drivers.
- Intel, AMD
- 2.535" H × 6.6" L (64 mm × 167 mm)
- 0°C to 55°C with 200 LFM airflow
- CE, FCC, UL, C-tick, VCCI, KCC, CNS
- RoHS
- 1.37 million hours measured at 40°C
- 3 years

Strona firmowa produktu: https://www.superstorage.pl/adaptec-smartraid-3102e-8i-p-6781.html