

# Adaptec SmartRAID 3254-16i /e

Kod producenta: 3254C16IXS



Typ kontrolera	SAS/SATA/NVMe RAID
Przepustowość	24Gb/s
Ilość kanałów wew.	16
Ilość kanałów zew.	0
Poziomy RAID	0,1,5,6,10,50,60
Złącza wew.	2x SFF-8654
Pamięć cache	4096 MB
Typ złącza magistrali	PCI Express 4.0 x8
Format	Low Profile
Podtrzymanie cache	Tak
Gwarancja	36 m-cy
Uwagi	Integrated cache protection, ships with ASCM35F, maxCache 4.0

The Adaptec® SmartRAID 3254-16i /e RAID adapter offers maximum performance with SAS/SATA/NVMe tri-mode functionality for server OEM, storage systems, data center, and enterprise customers than previous generations.

Built on Microchip's proven 5th generation SmartROC 3200 storage controller, the SmartRAID 3254-16i /e supports a x8 PCIe Gen 4 host interface with 16 media facing port variants for internal Tri-mode connectivity. New technologies available with the SmartRAID 3200 family includes DirectPath, which integrates a PCIe switch for the industry's lowest latency and highest bandwidth NVMe solution and Microchip's Dynamic Channel Multiplexing (DCM) technology that aggregates expander attached SAS or SATA hard drives onto 24G SAS infrastructure with near 100% link efficiency for unparalleled through-put. Native HBA modes for all media types are also supported, which offers the lowest latency for memory-based PCIe storage.

SmartRAID 3200 adapters include Microchip's Trusted Platform support which delivers a new level of compute and supply chain security based on a hardware root of trust that is aligned with the Open Compute Security Project. For additional layers of security, Microchip has now expanded on its unique Adaptec maxCrypto Controller-Based Encryption (CBE) solution to support SAS, SATA, and now NVMe media, and also supports Self-Encrypting Drive (SED) management software.

The SmartRAID 3200 RAID adapters also support both Intel® Virtual Pin Port (VPP) for intelligent backplane management and SFF's Universal Backplane Management (UBM) standards to simplify integration and enhance product flexibility for system integrators. Also supported are industry leading storage management including standards-based Platform Level Data Model (PLDM)/Redfish® Device Enablement (RDE) to simplify integration and and Microchip's ChipLink Diagnostic Tool with signal integrity analysis and context sensitive documentation to accelerate time to market.

# Product Features

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- Industry's first 24G SAS adapter support for industry standard SAS-4 connectivity
- 16 Gbps NVMe Gen 4, 24 Gbps SAS-4, and 6 Gbps SATA full Tri-mode SAS/SATA/NVMe adapters
- 8-lane (x8) PCIe Gen 4 host interface
- Dynamic power management to save up to 30% power
  - Superior performance with up to 14.8 GB/s throughput and 3.4M IOPs 4K random reads
  - Integrated PCIe Switch enables DirectPath technology for the industry's lowest latency and high bandwidth NVMe solution
  - Dynamic Channel Multiplexing (DCM) technology that aggregates expander attached SAS or SATA hard drives onto 24G SAS infrastructure with near 100% link efficiency for unparalleled throughput
  - Microchip's Trusted Platform support with a new level of compute and supply chain security based on Hardware Root of Trust
  - Expanded unique maxCrypto™ Controller-Based Encryption (CBE) solution to support SAS, SATA, and now NVMe media
  - Self-Encrypting Drive (SED) management software
  - Common management experience across Smart Storage platform and tri-mode media
  - Support for both Intel® Virtual Pin Port (VPP) for intelligent backplane management and SFF's Universal Backplane Management (UBM) standards to simplify integration and enhance product flexibility
  - SGPIO and SCSI Enclosure Services (SES) allow a common way to manage device status and activity for directly connected storage devices or for devices connected behind a SAS expander
  - Industry leading storage management including standards-based Platform Level Data Model (PLDM)/Redfish® Device Enablement (RDE) to simplify integration
  - BMC Integration with PBSI & MCTP Support
  - Proven compatibility with existing Adaptec Smart solutions, multiple operating systems, servers, enclosures, SSDs and HDDs

Strona firmowa produktu: <https://www.superstorage.pl/adaptec-smartraid-3254-16i-p-6794.html>