

Areca ARC-8050T3 series

Thunderbolt™ 3 Technology



Highlights

- High performance 40Gbps Thunderbolt 3 interface
- Support simultaneous 4K in/output workflow
- Dual Thunderbolt 3 ports for daisy-chaining
- Configuration by the Thunderbolt/LAN port/LCD
- Advanced configuration for video optimized performance settings
- Delivers enterprise-class data protection and security
- Controller-level hardware encryption (not available for 4-Bay)
- Support BBM option for cache protection (not available for 4-Bay)
- Intelligent power On/Off function for data integrity
- Thunderbolt 3 (USB-C) cable included

Thunderbolt ARC-8050T3 RAID Storage

Unleash Your Creativity Faster Than Ever

Thunderbolt™ 3 brings Thunderbolt to USB-C at speeds up to 40 Gbps, creating one compact port that does it all – delivering the fastest, most versatile connection to any dock, display, or data device. ARC-8050T3 is equipped with dual Thunderbolt 3 ports for connecting to any Thunderbolt 3-enabled host and offers an additional Thunderbolt 3 port for daisy-chaining other peripherals, while also supplying power for quick notebook charging. The Thunderbolt daisy-chaining allows connection of up to six devices, so customers can connect ARC-8050T3 for massive amounts of video storage with a single Thunderbolt connection to their host computer. ARC-8050T3 can meet the demand of users when working with rich, ultra-high resolution media through Thunderbolt 3 interface. The ARC-8050T3 also sports a full sized DisplayPort video output on its rear, allowing for a quick and easy 4K 60Hz display setup.

Unparalleled Performance for 4K Workflow

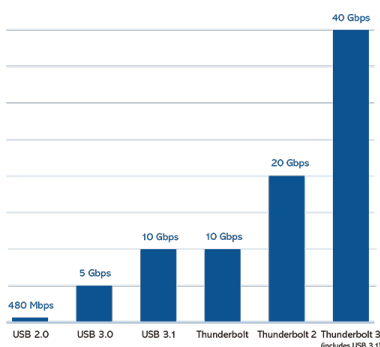
ARC-8050T3 is the most complete 4/6/8/12-bay Thunderbolt 3 desktop SAS/SATA RAID storage with RAID control capabilities solution for both PC and Mac. ARC-8050T3 incorporated on-board RAID-On-Chip and ECC SDRAM memory to deliver true high performance hardware RAID protection against drive failure. This combination helps to provide a high performance storage device perfect for the video editor working with Real time multi-stream HD and 4K workflows. It runs efficiently without disruption or major drops in performance to meet the requirements of 4K data workflow. It is so quick it allows for 4K displays at the same time as daisy chaining ARC-8050T3 and doing a simultaneous 4K output and file transfers while maintaining maximum throughput.

Enterprise-class Data Availability and Security

ARC-8050T3 supports the hardware RAID 6 engine to allow two HDDs failures without impact the existing data and performance. It allows users to hot swap drive in the event of a drive failure with zero downtime. Its high data availability and protection derives from many advanced RAID features on ARC-8050T3 desktop RAID storage design. Intelligent power On/Off function on storage turns power in unison with the host computer power status. It can intelligently power down the unit after the thunderbolt host shuts down everything for data integrity. ARC-8050T3 also supports a battery backup option that protects all data in cache memory in the event of unexpected power outage. Board-level hardware encryption manages any kinds of drives attached to ARC-8050T3 without impacting the performance for higher levels of security.

Enabling an Easy-to-Manage Storage

Configuration and monitoring can be managed either through the LCD control panel, Thunderbolt interface or LAN port. The ArcSAP quick manager is a multi-language management software specifically designed for managing and configuring the ARC-8050T3 RAID storage. The intelligent cooling continuously adapts to environmental conditions by automatically controlling the speed of the cooling fans for the rapidly growing demand from the video editing markets. You can even configure ARC-8050T3 to intelligently spin down drives during periods of inactivity to further reduce noise and save energy.



RAID Features

- RAID level 0, 1, 1E, 3, 5, 6, 10, 30, 50, 60, Single Disk or JBOD
- Multiple RAID selection
- Support up to 1MB stripe size
- Online array roaming
- Online RAID level/stripe size migration
- Support global hot spare and local hot spare
- Instant availability and background initialization
- Advanced configuration for smooth data streaming
- Disk scrubbing/ array verify scheduling support
- Multiple pairs SSD/HDD disk clone function
- SSD automatic monitor clone (AMC) support
- SED (Self-encrypting drives) function support
- Support HDD firmware update
- Support for native 4K and 512 byte sector SAS and SATA devices
- Redundant flash image for adapter availability
- System status indication through LCD, LED and alarm buzzer
- Complete configuration management suite
 - McRAID manager – browser-based management tool (LAN or Thunderbolt)
 - ArcSAP manager – multi-language management software
 - Push Buttons and LCD Display panel for setup and status
 - Command Line Interface (CLI)- scriptable configuration tool
 - API libraries support - combine GUI with user management utility
 - SNMP support for remote monitoring
 - SMTP support for email notification

System Environment

- Operating Temperature : 0 ~ 35 °C
- Operating Humidity : 5% ~ 95 %, Non-condensing

Function Advantages

Feature 1	Advanced Configuration
Provide optimized parameter to adjust controlled firmware behavior for smooth data streaming.	
Feature 2	Controller-level Hardware Encryption
Board-level hardware encryption manages any kinds of drives attached to ARC-8050T3 without impacting the performance for higher levels of security. (not available for 4-Bay)	
Feature 3	BBM Support
Supports a battery backup option that protects all data in cache memory in the event of unexpected power outage for data availability. (not available for 4-Bay)	
Feature 4	Intelligent Power On/Off Function
Turns ARC-8050T3 power in unison with the host computer power status for data integrity.	
Feature 5	Front Panel LCD and Buttons
Easy access for configuration and status report.	
Feature 6	Network Interface
Embedded web server for remote control from one 10/100/1000 Ethernet (RJ-45).	

Product Features



Form Factor	Desktop 4-Bay	Desktop 6-Bay	Desktop 8-Bay	Desktop 12-Bay
Disk Port	4 x 6Gb/s SAS	6 x 12Gb/s SAS	8 x 12Gb/s SAS	12 x 12Gb/s SAS
On-Board Cache	1GB DDR3-800	2GB DDR3-1866		
Expansion Support	No	SFF-8644 (2-lanes)	No	SFF-8644 (4-lanes)
Cooling Fan	1 x 2700rpm	1 x 2700rpm	2 x 2700rpm	2 x 2700rpm
Power Supply	135W	180W	270W	400W
Dimension(W/H/D)	4.84 x 6.51 x 9.11 in (123x165.6x232 mm)	4.84 x 8.45 x 9.11 in (146x255x290 mm)	5.7 x 11.8 x 11.4 in (146x302x290 mm)	8.1 x 12.2 x 11.4 in (206x310x290 mm)
Weight	8.0 lbs / 3.6 Kg	13.2 lbs / 6.0 Kg	14.9 lbs / 6.8 Kg	20.8 lbs / 9.5 Kg
RAID Level	0, 1, 10, 3, 5, 6, Single Disk, JBOD		0, 1, 10, 3, 5, 6, 30, 50, 60, Single Disk, JBOD	
Connection	Thunderbolt 3 x2/Display Port x1			
OS Support	macOS 10.12 or later & Windows 8 or later			

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