

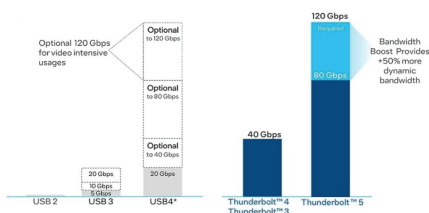
ARC-8050T5U Desktop Series

Thunderbolt™ 5 and USB 3.2 Gen2



Highlights

- High performance 80 and 120 Gbps Thunderbolt 5 interface
- Support simultaneous Dual 6K in/output workflow
- Support a USB-C computer port
- Tri-mode interface NVMe x1 (U.2/U.3), SAS or SATA at each drive bay- 4N/6MN/6N/8N/12N
- SAS/SATA -only interface at each drive bay- 4A/6/6M/8E/12E
- Support RAID level 0, 1, 1E, 3, 5, 6, 10, 30, 50, 60, Single Disk or JBOD
- Advanced configuration for video optimized performance settings
- Delivers enterprise-class data protection and security
- Controller-level hardware encryption
- Intelligent power On/Off function for data integrity
- Thunderbolt 5 (USB-C) cable included



Thunderbolt ARC-8050T5U RAID Storage

Unleash Your Creativity Faster Than Ever

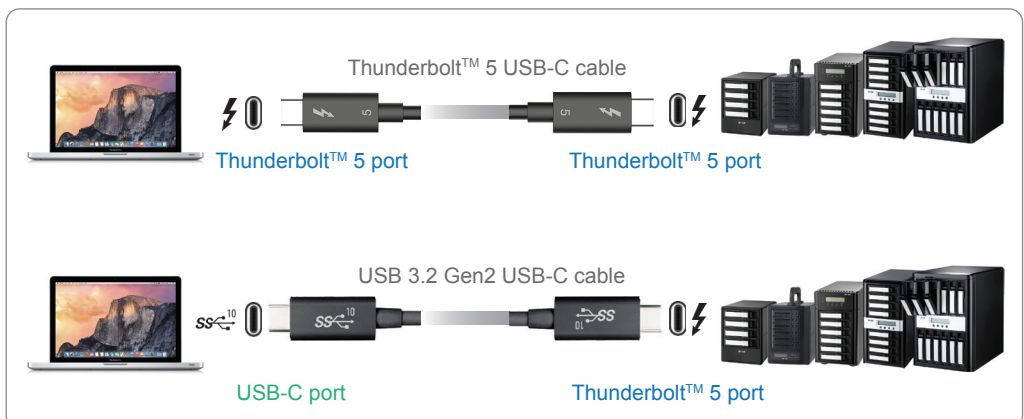
Thunderbolt™ 5 brings Thunderbolt to USB-C at speeds up to 80 Gbps, creating one compact port that does it all – delivering the fastest, most versatile connection to any dock, display, or data device. ARC-8050T5U is equipped with dual Thunderbolt 5 ports for connecting to any Thunderbolt 5-enabled host and offers an additional Thunderbolt 5 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-8050T5U for massive amounts of video storage with a single Thunderbolt connection to their host computer. If an ARC-8050T5U is plugged in a USB-C computer port, a USB device controller inside the ARC-8050T5U enabled system is activated, and the inside USB device controller drives USB (3.2 Gen 2) signals to the USB-C port. In this condition, the ARC-8050T5U Thunderbolt 5 port behaves exactly like a typical USB-C 3.2-enabled connector. The ARC-8050T5U also supports a full sized DisplayPort 2.1 video output on its rear, allowing for a quick and easy dual 6K display setup.

Unparalleled Performance for Dual 6K Workflow

ARC-8050T5U series is the most complete 4/6/8/12-bay Thunderbolt 5 desktop tri-mode SAS/SATA/NVMe x1 (U.2/U.3) or SAS/SATA -only storage interface storage with RAID control capabilities solution for both PC and Mac. ARC-8050T5U incorporated on-board RAID-on-Chip storerager controller and on-board SDRAM cache with ECC protection 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 dual 6K workflows. It is so quick it allows for dual 6K displays at the same time as daisy chaining ARC-8050T5U and doing a simultaneous dual 6K output and file transfers while maintaining maximum throughput.

Thunderbolt 5 and USB 3.2 Gen2 Ready

ARC-8050T5U Thunderbolt 5 port supports both Thunderbolt 5 & USB 3.2 Gen 2 protocol.



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



Product Features

ARC-8050T5U-4N/4A

ARC-8050T5U-6MN/6M

ARC-8050T5U-6N/6

ARC-8050T5U-8N/8E

ARC-8050T5U-12N/12E

Form Factor	Desktop 4-Bay	Desktop 6-Bay		Desktop 8-Bay	Desktop 12-Bay
Channel per Enclosure	4 x / 6 x / 8 x / 12 x HDDs or SSDs				
Storage Interface	T5U-4N / 6MN / 6N / 8N / 12N => NVMe x1(U.2/U.3), SAS or SATA T5U-4A / 6M / 6 / 8E / 12E => SAS or SATA -only				
Connection (USB-C)	2 x Thunderbolt 5 Ports or 2 x USB 3.2 Gen 2 Ports				
RAID Level	0, 1, 10, 3, 5, 6, Single Disk, JBOD	0, 1, 10, 3, 5, 6, 30, 50, 60, Single Disk, JBOD			
XLR	N/A	4-pin XLR	N/A		
Expansion Support	SFF-8644 (2-lanes)		SFF-8644 (4-lanes)		SFF-8644 (4-lanes)
Power Supply	150W	180W	300W	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	
Cooling Fan	1 x 2700rpm		2 x 2700rpm		
OS Support	Thunderbolt 5: macOS 15.0 or later & Windows 11 or later ; USB: OS Independent				
Computer Host Port	Works with any Thunderbolt 5 Thunderbolt 4 Thunderbolt 3 (Mac Only) USB4 or USB 3.2 Gne 2				

Function Advantages

Feature 1	USB-C Computer Port Compatibility Mode
Supports basic compatibility when ARC-8050T5U is connected to a USB-C computer port.	
Feature 2	Tri-Mode or SAS/SATA Device Support
Operate in all three modes or dual modes concurrently servicing interfaces that offers the operation of NVMe/SAS/SATA or SAS/SATA storage devices in a single drive bay.	
Feature 3	Advanced Configuration
Provide optimized parameter to adjust controlled firmware behavior for smooth data streaming.	
Feature 4	Controller-level Hardware Encryption
Board-level hardware encryption manages any kinds of drives attached to ARC-8050T5U without impacting the performance for higher levels of security.	
Feature 5	Intelligent Power On/Off Function
Turns ARC-8050T5U power in unison with the host computer power status for data integrity.	
Feature 6	Front Panel LCD and Buttons
Easy access for configuration and status report.	
Feature 7	Network Interface
Embedded web server for remote control from one 10/100 Ethernet (RJ-45).	



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