

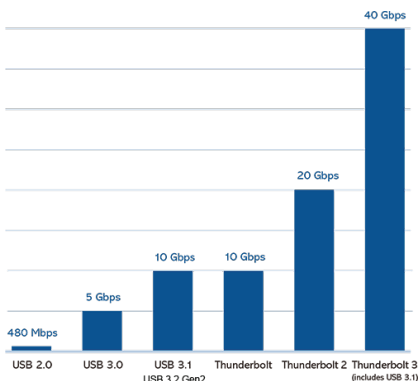
# ARC-8050T3U Desktop Series

Thunderbolt™ 3 and USB 3.2 Gen2



## Highlights

- High performance 40Gbps Thunderbolt 3 interface
- Support simultaneous 4K in/output workflow
- Support a USB-C computer port
- 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)
- Intelligent power On/Off function for data integrity
- Thunderbolt 3 (USB-C) cable included



## Thunderbolt ARC-8050T3U RAID Storage

### Unleash Your Creativity Faster Than Ever

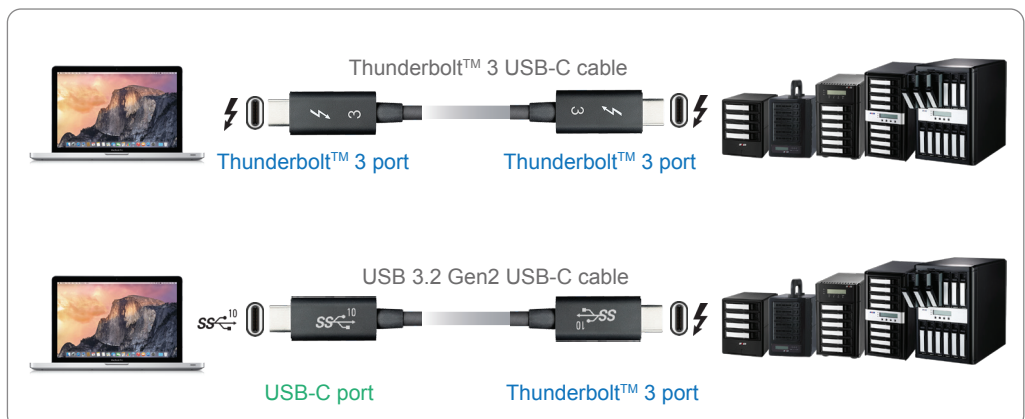
Thunderbolt™ 3 brings Thunderbolt to USB-C at speeds up to 40 Gbps, creating one compact port that does it all – delivering the fastest, most versatile connection to any dock, display, or data device. ARC-8050T3U is equipped with dual Thunderbolt 3 ports for connecting to any Thunderbolt 3-enabled host 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-8050T3U for massive amounts of video storage with a single Thunderbolt connection to their host computer. If an ARC-8050T3U is plugged in a USB-C computer port, a USB device controller inside the ARC-8050T3U-enabled system is activated, and the inside USB device controller drives USB (2.0, 3.2 Gen 1, or 3.2 Gen 2) signals to the USB-C port. In this condition, the ARC-8050T3U Thunderbolt 3 port behaves exactly like a typical USB-C 3.2-enabled connector. The ARC-8050T3U also sports a full sized DisplayPort 1.4 video output on its rear, allowing for a quick and easy 8K 30Hz display setup.

### Unparalleled Performance for 4K Workflow

ARC-8050T3U is the most complete 4/6/8/12-bay Thunderbolt 3 desktop SAS/SATA/NVMe RAID storage with RAID control capabilities solution for both PC and Mac. ARC-8050T3U 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 hardware RAID device perfect for the video editor working with Real time multi-stream HD and 4K workflows. It is so quick it allows for 4K displays at the same time as daisy chaining ARC-8050T3U and doing a simultaneous 4K output and file transfers while maintaining maximum throughput.

### Thunderbolt 3 and USB 3.2 Gen2 Ready

ARC-8050T3U Thunderbolt 3 port supports both Thunderbolt 3 & 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



Form Factor	Desktop 4-Bay	Desktop 6-Bay	Desktop 8-Bay	Desktop 12-Bay
Disk Port	4 x 6Gb/s SAS/SATA	6 x / 8 x / 12 x	12Gb/s SAS or 6Gb/s SATA	
I/O Processor	One Core 800 MHz SAS ROC	T3U-6M / 6 / 8 / 12 => Dual Core 1.2 GHz SAS ROC T3U-8E / 12E => Tri-Mode Dual Core ARM A15 1.6GHz ROC		
On-Board Cache	1GB DDR3-800	T3U-6M/6/8/12 => 2GB DDR3-1866 SDRAM ; T3U-8E/12E => 8GB DDR4-2666 SDRAM		
Expansion Support	No	SFF-8644 (2-lanes)	No	SFF-8644 (4-lanes)
Cooling Fan	1 x 2700rpm		2 x 2700rpm	
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
XLR	N/A	4-pin XLR	N/A	
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	<b>Thunderbolt 3:</b> macOS 10.12 or later & Windows 8/10 or later ; <b>USB:</b> OS Independent			
Computer Port Type	Thunderbolt™ 3, USB-C			

## Function Advantages

<b>Feature 1</b>	USB-C Computer Port Compatibility Mode
Supports basic compatibility when ARC-8050T3U is connected to a USB-C computer port.	
<b>Feature 2</b>	Bootable Drive Support
Provides user the capability of adding bootable drive via Thunderbolt on Apple thunderbolt-capable machine.	
<b>Feature 3</b>	Advanced Configuration
Provide optimized parameter to adjust controlled firmware behavior for smooth data streaming.	
<b>Feature 4</b>	Controller-level Hardware Encryption
Board-level hardware encryption manages any kinds of drives attached to ARC-8050T3U without impacting the performance for higher levels of security. (not available for 4-Bay)	
<b>Feature 5</b>	Intelligent Power On/Off Function
Turns ARC-8050T3U power in unison with the host computer power status for data integrity.	
<b>Feature 6</b>	Front Panel LCD and Buttons
Easy access for configuration and status report.	
<b>Feature 7</b>	Network Interface
Embedded web server for remote control from one 10/100/1000 Ethernet (RJ-45).	



Areca Website: <http://www.areca.com.tw>

Areca is a registered trademark of Areca Technology Corporation. Other brand names and product names are trademark or registered trademarks of their respective companies. This specification may be changed at any time without prior notice.

8F., No.22, Lane 35, Ji-Hu Rd., 114 Taipei, Taiwan, R.O.C.

TEL:886-2-87974060 FAX: 886-2-87975970

Technical Support: [support@areca.com.tw](mailto:support@areca.com.tw)

Sales Information: [sales@areca.com.tw](mailto:sales@areca.com.tw)