

12Gb/s SAS RAID Adapters

ARC-1883i/x/LP/ix-12/ix-16/ix-24
ARC-1884ixl-8/12



Step 1: Unpack

Inspect 12Gb/s SAS RAID controller from the package. If it appears damaged, or if any items of the contents listed below are missing or damaged, please contact your dealer or distributor.

Checklist

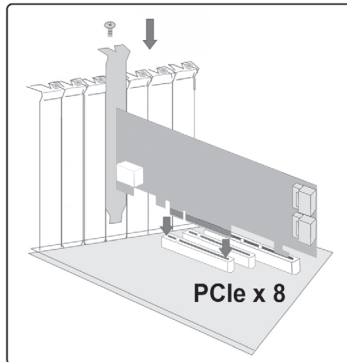
- 1 x Low-profile bracket
- 1 x 12Gb/s SAS RAID controller in an ESD-protective bag
- 1 x ARC-1883/1884ixl series quick installation guide
- Adapter convert two 4 pin peripheral power cables into a PCI-E power cable (ARC-1883ix only)

Step 2: Power PC/Server Off

Step 3: Check Memory Module (ARC-1883ix only)

Step 4: Install the 12Gb/s SAS RAID Controllers

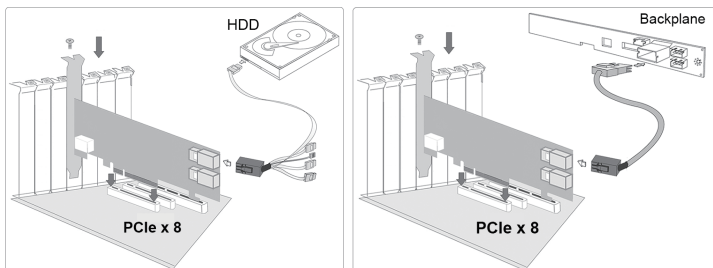
Remove the mounting screw and existing bracket from the rear panel behind the selected PCIe 3.0 slot. Align the gold-fingered edge on the card with the selected PCIe 3.0 slot. Press down gently but firmly to ensure that the card is properly seated in the slot. Then, screw the bracket into the computer chassis.



Step 5: Mount the Drives

You can connect the SAS/SATA drives to the controller through direct cable and backplane solutions.

Step 6: Install SAS Cable



Step 7: Connect Monitor Port - LAN Port (Optional)

User can remote manage the RAID controller without adding any user specific software (platform independent) via standard web browsers directly connected to the Gigabit Ethernet RJ45 LAN port.

Step 8: Adding a FBM/BBM Backup Module (Optional)

***** ARC-1884ixl-8/12 only support BBM. *****
 Please refer to Appendix B and Appendix C of user manual.

Step 9: Connect Power to the Adapter (ARC-1883ix only)

There is a 6-pin PCI-E connector on the ARC-1883ix labelled J4. You must plug in a PSU's PCI-E cable at all times to supply enough stable power for the controller.

Step 10: Power up the System

Step 11: Install the Controller Driver

For a new system:

- Driver installation usually takes places as part of operating system installation. Please refer to Chapter 4 "Diver Installation" of the user manual for the detailed installation procedure.

In an existing system:

- To install the controller driver into the existing operating system. For the detailed installation procedure, please refer to the Chapter 4 "Driver Installation" of the user manual.

Step 12: Install ArcHTTP Proxy Server

ArcHTTP has to be installed for GUI RAID console (MRAID storage manager) to run. It is used to launch the web browser MRAID storage manager. It also runs as a service or daemon in the background that allows capturing of events for mail and SNMP traps notification.

Follow the steps below to install the ArcHttp utility.

1. Download ArcHttp proxy server (or MRAID software) from Areca website: <https://www.areca.com.tw/support/downloads.html>
2. Follow the steps on the user manual to complete the installation

If you need additional information about installation and start-up of this function, see the ArcHTTP Proxy Server Installation section in Chapter 5 of the user manual. For SNMP agent function, please refer to Appendix D of the user manual.

Step 13: Configure Volume Set

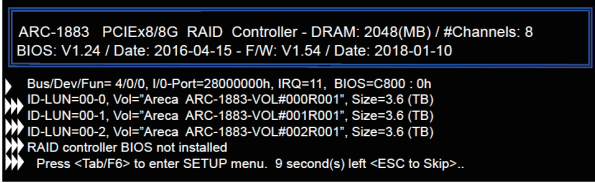
You can create and configure a RAID controller using any of these tools:

- McBIOS RAID Manager
 - BIOS-based menus and keyboard navigation.
- MRAID Storage Manager
 - Web browser firmware-based manager, which is accessible via the web browser installed on your operating system. It can be launched through ArcHttp utility or onboard LAN port.

※ Method 1: McBIOS RAID Manager (Not For Mac User)

The McBIOS RAID manager is a menu-driven program, residing in the firmware, which allows you to scroll through various menus and sub-menus and select among the predetermined configuration options.

1. Power on your computer. When prompted, press Tab or F6 to enter the McBIOS RAID manager message.



2. If you have more than one controller in your system, the McBIOS RAID manager window appears showing a selection dialog box listing the SAS RAID controllers, select your controller, then press Enter.
3. Follow the McBIOS RAID manager to complete the configuration.

※ Method 2: MRAID Manager From LAN Port

User can remote manage the ARC-1883/ARC-1884 series without adding any user specific software (platform independent) via standard web browsers directly connected to the Gigabit Ethernet RJ45 LAN port. You can find controller Ethernet port default IP address in McBIOS RAID manager "System Information" option. Launch the Web Browser-based MRAID storage manager by entering `http://[IP Address]` in the web browser.

Type the User Name and Password. The RAID controller default User Name is "admin" and the Password is "0000". After entering the user name and password, click the button to access the MRAID storage manager.

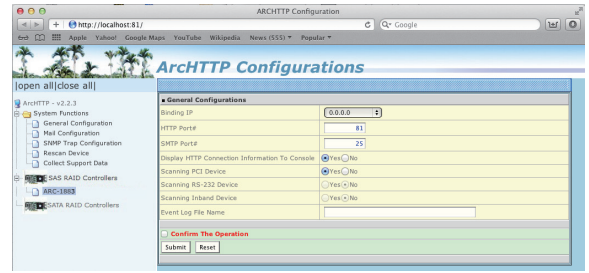
See the chapter 6 of Web Browser-based Configuration on the user manual detailing the MRAID storage manager to customize your RAID configuration.

If you need more detail information, please download user manual from the website below:

- https://www.areca.com.tw/products/sasadapters_1883.html
- https://www.areca.com.tw/products/sasadapters_1884.html
- <https://www.areca.com.tw/support/downloads.html>

※ Method 3: MRAID Storage Manager From ArcHTTP

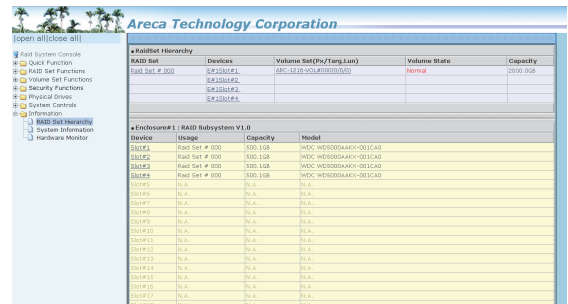
1. Start ArcHTTP- Browser Edition:
 - (1) In Windows, right-click on "Start" menu and choose "Programs". Clicking "MRAID" program icon starts the ArcHTTP utility (From the Start menu, choose Programs > MRAID > ArcHTTP).
 - (2) On a Mac, there is one MRAID icon showing on your desktop. This icon is for you to start up the ArcHTTP utility.
2. When you double-click on the "ArcHTTP64", it shows all RAID storages available on the system and create an individual RAID storage icon located on left column of the "ArcHTTP Configurations" screen.



3. Locate "ARC-1883/1884 Web Management" and launch the selected MRAID storage manager.



Enter RAID storage default User Name "admin" and the Password "0000" when the login page prompted for it. After logging in, the MRAID storage manager process starts.



Click on the "Quick Create" in the main menu, your volume is auto-matically configured based on the number of disks in your system. You can create a RAID set associated with exactly one volume set.

The user can change the Raid Level, Capacity, Initialization Mode, and Stripe Size. A hot spare option is also created, depending on the exist configuration. Tick on the "Confirm The Operation" check box and click on the "Submit" button, the RAID set and volume set will start to initialize. If you prefer to customize your volume set, please use the "Raid Set Functions" and "Volume Set Functions".

See chapter 6 of ARC-1883/ARC-1884 user manual for information on customizing your RAID volumes using MRAID storage manager.

If you need more detail information, please download user manual from the website below:

- <https://www.areca.com.tw/support/downloads.html>

Product Features	ARC-1883i	ARC-1883x	ARC-1883LP	ARC-1883ix-12/16/24	ARC-1884ixl-8/12
Form Factor	Low Profile: 64.4(H) x 169.5(L) mm			98.4 (H) x 254 (L) mm	Low Profile: 64.4(H) x 169.5(L) mm
I/O Processor	Dual Core RAID-on-Chip 1.2GHz			Dual Core RAID-on-Chip 1.2GHz	Dual Core RAID-on-Chip 1.2GHz
On-Board Cache	2GB on-board DDR3-1866 SDRAM			2GB(default) DDR3-1866, 1RX8 - up to 4GB or 8GB DDR3-1866, 1RX8 - up to 4GB or 8GB DDR3-1600, 2RX8, Unbuffered/ Registered ECC module	2GB on-board DDR3-1866 SDRAM
Drive Support	Up to 512 12Gb/s SAS or 6Gb/s and 3Gb/s SAS/SATA HDDs/SSD, using 12Gb/s SAS Expander				
Driver Connector	2 x SFF-8643	2 x SFF-8644	1 x SFF-8643 1 x SFF-8644	3/4/6 x SFF-8643 1 x SFF-8644	2/3 x SFF-8643 1 x SFF-8644
Enclosure Ready	ARC-1883: Individual Activity/Faulty Header, Serial Bus and SGPIO ARC-1884ixl: Individual Faulty Header, Serial Bus and SGPIO				
Management	In-Band: PCIe / Out-of-Band: LCD (Optional) and LAN Port				
FBM / BBM	ARC-1883-CAP (support up to cache 2GB)/ ARC-1883-BAT / ARC-6120BA-T121-12G			ARC-6120BA-T121-12G	