**Controller Advantages**

- RAID Level: 0, 1, 10(1E), 3, 5, 6, 30, 50, 60, Single Disk and JBOD
- Multiple RAID 0 and RAID 10(1E) support (RAID 00 and RAID 100)
- Multiple RAID selection
- Online array roaming
- Offline RAID set
- Online capacity expansion and RAID level migration simultaneously
- Online RAID level/strip size migration
- Online volume set growth
- Instant availability and background initialization
- Support global and dedicated hot spare
- Automatic drive insertion/removal detection and rebuilding
- 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
- Support intelligent power management to save energy and extend service life
- Support NTP protocol synchronize RAID controller clock over the on

**Driver Support**

- Mac OS X 10.4.x/macos 10.12 or higher
- Linux: Debian/Gentoo/Ubuntu/CentOS
- Linux/Redhat: Fedora Core/RHEL/OpenSUSE/Suse-SLES
- NAS: FreeNAS/OpenFiler/Open-e-NAS
- Unix/Solaris 10 & 11
- BSD: FreeBSD/OpenBSD/NetBSD
- Wasabi Systems Storage Builder: IP-SAN 3.0(NetBSD Kernel)
- unRAID
- xenServer
- VMware
- illuminos
**ARC-1110/1120** 4/8 ports PCI-X to 3Gb/s SATA RAID Controllers

- **ARC-1110**
  - I/O Processor: Intel IOP331
  - Host Bus Type: PCI-X 64bit/133MHz
  - On-Board Cache: DDR333 256MB
  - BBM Support: ARC-6120BAT113
  - Disk Connectors: SATA x 2
  - Drives Support: 4 x SATA II

- **ARC-1120**
  - I/O Processor: Dual Core 800Mhz
  - Host Bus Type: PCI-X 64bit/133MHz
  - On-Board Cache: DDR3-1333 1GB
  - BBM Support: ARC-6120BAT113
  - Disk Connectors: SATA x 4
  - Drives Support: 8 x SATA II

**ARC-1882P** XMC to 6Gb/s SAS/SATA RAID Controllers - Mezzanine Board

- **ARC-1882P**
  - I/O Processor: ARM_based 933MHz storage processor
  - Host Bus Type: PCIe 2.0 x8 Lanes
  - On-Board Cache: 1GB on-board DDR3-933 SDRAM with ECC protection
  - BBM Support: ARC-6120BAT121
  - RAID level:
    - ARC-1110/1120: 0, 1, 10(1E), 3, 5, 6, Single Disk or JBOD
    - ARC-1882P: 0, 1, 10(1E), 3, 5, 6, 30, 50, 60, Single Disk or JBOD

**ARC-12x4 series** 4/8/12/16 ports PCIe 2.0 6Gb/s SAS/SATA RAID Controllers

- **ARC-1214-4i**
  - 1 x SFF-8087
  - 4 x 6Gb/s SAS ports
  - up to 4 drives

- **ARC-1214-8i**
  - 2 x SFF-8087
  - 8 x 6Gb/s SAS ports
  - up to 8 drives

- **ARC-1264il-12**
  - 3 x SFF-8087
  - 12 x 6Gb/s SAS ports
  - up to 12 drives

- **ARC-1264il-16**
  - 4 x SFF-8087
  - 16 x 6Gb/s SAS ports
  - up to 16 drives

**ARC-1214-4i**
- ARC-1214-8i
- ARC-1264il-12
- ARC-1264il-16

- **ARC-1214-4i**
  - I/O Processor: Intel IOP331
  - Host Bus Type: PCIe 2.0 x8 Lanes
  - On-Board Cache: DDR333 256MB
  - BBM Support: ARC-6120BAT113
  - Disk Connectors: SATA x 2
  - Drives Support: 4 x SATA II

- **ARC-1214-8i**
  - I/O Processor: Dual Core 800Mhz
  - Host Bus Type: PCIe 2.0 x8 Lanes
  - On-Board Cache: DDR3-1333 1GB
  - BBM Support: ARC-6120BAT113
  - Disk Connectors: SATA x 4
  - Drives Support: 8 x SATA II

- **ARC-1264il-12**
  - I/O Processor: ARM_based 933MHz storage processor
  - Host Bus Type: PCIe 2.0 x8 Lanes
  - On-Board Cache: 1GB on-board DDR3-933 SDRAM with ECC protection
  - BBM Support: ARC-6120BAT121
  - RAID level:
    - ARC-1214-4i: 0, 1, 10(1E), 3, 5, 6, Single Disk or JBOD
    - ARC-1224-8i/ARC-1264il-12/16: 0, 1, 10(1E), 3, 5, 6, 30, 50, 60, Single Disk or JBOD

- **ARC-1264il-16**
  - I/O Processor: ARM_based 933MHz storage processor
  - Host Bus Type: PCIe 2.0 x8 Lanes
  - On-Board Cache: 1GB on-board DDR3-933 SDRAM with ECC protection
  - BBM Support: ARC-6120BAT121
  - RAID level:
    - ARC-1214-4i: 0, 1, 10(1E), 3, 5, 6, Single Disk or JBOD
    - ARC-1224-8i/ARC-1264il-12/16: 0, 1, 10(1E), 3, 5, 6, 30, 50, 60, Single Disk or JBOD

**Disk Connectors**

- **ARC-1214-4i**
  - 1 x SFF-8087
  - 2 x SFF-8087
  - 3 x SFF-8087
  - 4 x SFF-8087

**Drives Support**

- Up to 4 / 8 / 12 / 16 x 6Gb/s SAS/SATA HDDs/SSD
**ARC-1203 series** 2/4/8 ports PCIe 2.0 6Gb/s SATA RAID Controllers

- **Host Bus Type**: PCIe 2.0 x 4 lanes
- **Form Factor**: 64 (H) x 168 (L) mm
- **Disk Connectors**: SFF-8087 x 2
- **Drives Support**: 8x SATA III drives

**ARC-1203-2i**

- **I/O Processor**: ARM-based 1066MHz storage I/O processor
- **On-Board Cache**:
  - ARC-1203-2i: 256MB on-board DDR3-1066 SDRAM with ECC protection
  - ARC-1203-4i/8i: 512MB on-board DDR3-1066 SDRAM with ECC protection
- **BBM Support**: ARC-6120BAT121-12G
- **RAID level**:
  - ARC-1203-2i: 0, 1 and Single Disk
  - ARC-1203-4i/8i: 0, 1, 10(1E), 3, 5, 6, 30, 50, 60 and Single Disk

**ARC-1203-4i**

- **I/O Processor**: Dual Core RAID-on-Chip 1.2GHz Processor
- **Host Bus Type**: PCIe 3.0 x8 Lanes
- **On-Board Cache**: 1GB on-board DDR3-1600 SDRAM with ECC protection
- **BBM Support**: ARC-6120BAT121-12G
- **Drives Support**: Up to 4/8 x 12Gb/s SAS/SATA HDDs/SSD
- **RAID level**:
  - ARC-1216-4i/4x: 0, 1, 10(1E), 3, 5, 6, Single Disk or JBOD
  - ARC-1226-8i/8x: 0, 1, 10(1E), 3, 5, 6, 30, 50, 60, Single Disk or JBOD

**ARC-1203-8i**

- **Form Factor**: 64 (H) x 134 (L) mm
- **Disk Connectors**: SATA III x 2
- **Drives Support**: 2x SATA III

**ARC-12x6 series** 4/8 ports PCIe 3.0 12Gb/s SAS RAID Controllers

- **Host Bus Type**: PCIe 3.0 x8 Lanes
- **On-Board Cache**:
  - ARC-1216-4i: 4GB on-board DDR3-1600 SDRAM with ECC protection
  - ARC-1226-8i: 4GB on-board DDR3-1600 SDRAM with ECC protection
- **BBM Support**: ARC-6120BAT121-12G
- **Drives Support**: Up to 4/8 x 12Gb/s SAS/SATA HDDs/SSD
- **RAID level**:
  - ARC-1216-4i/4x: 0, 1, 10(1E), 3, 5, 6, Single Disk or JBOD
  - ARC-1226-8i/8x: 0, 1, 10(1E), 3, 5, 6, 30, 50, 60, Single Disk or JBOD

**ARC-1216-4i**

- **Form Factor**: 64 (H) x 168 (L) mm
- **Disk Connectors**: SFF-8087 x 1
- **Drives Support**: 4x SATA III

**ARC-1216-4x**

- **Disk Connectors**: SFF-8087 x 1
- **Drives Support**: 4x SATA III

**ARC-1226-8i**

- **Form Factor**: 64 (H) x 168 (L) mm
- **Disk Connectors**: SFF-8087 x 2
- **Drives Support**: 8x SATA III

**ARC-1226-8x**

- **Disk Connectors**: SFF-8087 x 2
- **Drives Support**: 8x SATA III

**Enclosure Ready**

- **ARC-1216-4i**: Individual Activity/Faulty Header, Serial Bus and SGPIO External Serial Bus
- **ARC-1226-8i**: Individual Activity/Faulty Header, Serial Bus and SGPIO External Serial Bus
- **ARC-1216-4x**: Individual Activity/Faulty Header, Serial Bus and SGPIO External Serial Bus
- **ARC-1226-8x**: Individual Activity/Faulty Header, Serial Bus and SGPIO External Serial Bus
ACR-1883 series 8/16/20/28 Ports 12Gb/s SAS/SATA RAID Controllers

I/O Processor: Dual Core RAID-on-Chip 1.2GHz Processor
Host Bus Type: PCIe 3.0 x8 Lanes
RAID Level: 0, 1, 1E, 3, 5, 6, 10, 30, 50, 60, Single Disk, JBOD
BBM Support: ARC-1883-CAP(support cache 2GB) / ARC-1883-BAT / ARC-6120BA-T121-12G
Drives Support: Up to 512 12Gb/s SAS or 6Gb/s and 3Gb/s SAS/SATA HDDs/SSD
Management Port: In-Band: PCIe / Out-of-Band: BIOS, LCD and LAN Port
Enclosure Ready: Individual Activity/Faulty Header, SGPIO, SMP, SES-2
On-Board Cache: 

ARC-1883i 2GB on-board DDR3-1866 SDRAM with ECC protection
ARC-1883x 2GB on-board DDR3-1866 SDRAM with ECC protection
ARC-1883LP 2GB on-board DDR3-1866 SDRAM with ECC protection
ARC-1883ix 2GB on-board DDR3-1866 SDRAM with ECC protection

ARC-1884ixl series 12/16 ports PCIe 3.0 12Gb/s SAS RAID Controllers

I/O Processor: Dual Core RAID-on-Chip 1.2GHz Processor
Host Bus Type: PCIe 3.0 x8 Lanes
RAID Level: 0, 1, 1E, 3, 5, 6, 10, 30, 50, 60, Single Disk, JBOD
BBM Support: ARC-6120BA-T121-12G
Drives Support: Up to 512 12Gb/s SAS or 6Gb/s and 3Gb/s SAS/SATA HDDs/SSD
Management Port: In-Band: PCIe / Out-of-Band: BIOS, LCD and LAN Port
Enclosure Ready: Individual Fault Header, SGPIO, SMP and SES2
On-Board Cache: 2GB on-board DDR3-1866 SDRAM with ECC protection

Disk Connectors

<table>
<thead>
<tr>
<th>Model</th>
<th>2 x SFF-8643</th>
<th>2 x SFF-8644</th>
<th>1 x SFF-8643</th>
<th>1 x SFF-8644</th>
<th>3/4/6 x SFF-8643</th>
<th>1 x SFF-8644</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC-1883i</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>ARC-1883x</td>
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<tr>
<td>ARC-1883LP</td>
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<tr>
<td>ARC-1883ix</td>
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<td>ARC-1884ixl-8</td>
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<tr>
<td>ARC-1884ixl-12</td>
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</tr>
</tbody>
</table>
ARC-1320 series  8/24 ports PCIe 2.0 6Gb/s SAS Host Adapters

- ARC-1320-8i
  - 2 x SFF-8087

- ARC-1320-8x
  - 2 x SFF-8088

- ARC-1320-4i4x
  - 1 x SFF-8087
  - 1 x SFF-8088

- ARC-1320ix-16
  - 4 x SFF-8087
  - 2 x SFF-8088

ARC-1330 series  8 ports PCIe 3.0 12Gb/s SAS Host Adapters

- ARC-1330-8i
  - 2 x SFF-8643

- ARC-1330-8x
  - 2 x SFF-8644

- ARC-1330-4i4x
  - 1 x SFF-8643
  - 1 x SFF-8644

Disk Connectors

<table>
<thead>
<tr>
<th>ARC-1320-8i</th>
<th>ARC-1320-8x</th>
<th>ARC-1320-4i4x</th>
<th>ARC-1320ix-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x SFF-8087</td>
<td>2 x SFF-8088</td>
<td>1 x SFF-8087</td>
<td>3/4/6 x SFF-8087</td>
</tr>
<tr>
<td>1 x SFF-8088</td>
<td>1 x SFF-8088</td>
<td>1 x SFF-8088</td>
<td>1 x SFF-8088</td>
</tr>
</tbody>
</table>

Drives Support

<table>
<thead>
<tr>
<th>ARC-1320-8i</th>
<th>ARC-1320-8x</th>
<th>ARC-1320-4i4x</th>
<th>ARC-1320ix-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD2 Low Profile: 64 (H) x 168 (L) mm</td>
<td>64 (H) x 214 (L) mm</td>
<td>MD2 Low Profile: 64 (H) x 168 (L) mm</td>
<td>MD2 Low Profile: 64 (H) x 214 (L) mm</td>
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</table>

Host Bus Type

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<thead>
<tr>
<th>ARC-1320-8i</th>
<th>ARC-1320-8x</th>
<th>ARC-1320-4i4x</th>
<th>ARC-1320ix-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCIe 2.0 x8 Lanes</td>
<td>PCIe 2.0 x8 Lanes</td>
<td>PCIe 2.0 x8 Lanes</td>
<td>PCIe 2.0 x8 Lanes</td>
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</table>

Drives Support

<table>
<thead>
<tr>
<th>ARC-1320-8i</th>
<th>ARC-1320-8x</th>
<th>ARC-1320-4i4x</th>
<th>ARC-1320ix-16</th>
</tr>
</thead>
</table>
**ARC-71xx series subsystem** 12Gb/s SATA to SAS RAID Storage Subsystem

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>ARC-7108MS-HR2</th>
<th>ARC-7112MS-HR2</th>
<th>ARC-7116MS-HR3</th>
<th>ARC-7124MS-HR4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2U-8 bays</td>
<td>2U-12 bays</td>
<td>3U-16 bays</td>
<td>4U-24 bays</td>
</tr>
</tbody>
</table>

**ARC-72xx series Subsystem** 12Gb/s SAS to SAS RAID Storage Subsystem

**ARC-72xx series JBOD** 12 Gb/s SAS JBOD Enclosure

<table>
<thead>
<tr>
<th>Module Support</th>
<th>ARC-7212JS-TR2</th>
<th>ARC-7216JS-TR3</th>
<th>ARC-7224JS-TR4</th>
<th>ARC-7224JD-TR4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Form Factor</td>
<td>2U-12 bays</td>
<td>3U-16 bays</td>
<td>4U-24 bays</td>
<td></td>
</tr>
</tbody>
</table>

**ARC-5066-CL series** eSATA/USB3.0/iSCSI to 6Gb/s SATA RAID - Cable Solution

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>ARC-5066CL-12</th>
<th>ARC-5066CL-16</th>
<th>ARC-5066CL-24</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 * SFF-8087</td>
<td>4 * SFF-8087</td>
<td>6 * SFF-8087</td>
</tr>
</tbody>
</table>

**ARC-5066-CL**

**I/O Processor:** Quad Core ARM V7 1.2GHz

**Host Bus Type:** 1 x 6Gb/s eSATA + 1 x USB 3.0 + 4 x 1Gbps iSCSI

**On-Board Cache:** 2GB DDR3-1200 SDRAM

**Disk Interface:** 6Gb/s and 3Gb/s SATA HDDs/SSDs

**Power Supply / In / Out:** Dual 400W / Triple 400W

**RAID Level:** 0, 1, 10(1E), 3, 5, 6, 30, 50, 60, Single Disk or JBOD

**BBM Support:** ARC-6120BA-T121-7

**ARC-7208SS-DR2 ARC-7212SS-DR2 ARC-7216SS-DR3**

**I/O Processor:** Quad Core ARM V7 1.2GHz

**Host Bus Type:** 2 x 12Gb/s Min SAS HD 4x wide ports via two SFF-8644 connections

**Expansion Interface:** 1 x 12Gb/s Min SAS HD 4x wide port via one SFF-8644 connection

**Disk Bus Interface:** 12Gb/s SAS or 6Gb/s and 3Gb/s SAS/SATA HDDs/SSDs

**Management Port:** CLI through out-of-band RS-232 serial port

**ARC-5066-CL**

**I/O Processor:** Quad Core ARM V7 1.2GHz

**Host Bus Type:** 1 x 6Gb/s eSATA + 1 x USB 3.0 + 4 x 1Gbps iSCSI

**On-Board Cache:** 2GB DDR3-1200 SDRAM

**Internal Connector:** 3 / 4 / 6 x SFF-8087 Connectors

**Drive Interface:** up to 12 / 16 / 24 x 6Gb/s SATA ports

**Management Port:** In-Band: SES-3 / Out-of-Band: LCD and LAN Port

**Enclosure Ready:** Individual Activity/Fault LED Header, Serial Bus Interface

**RAID Level:** 0, 1, 10(1E), 3, 5, 6, 30, 50, 60, Single Disk or JBOD

**Form Factor:** One 5.25” Half-height Drive Bay [146(W) x 40(H) x 200(L)mm]

**BBM Support:** ARC-6120BAT121-7
**ARC-9200 RAID Head series**  
SAS/Fibre/iSCSI to 12Gb/s SAS RAID Head

<table>
<thead>
<tr>
<th>Host Interface</th>
<th>ARC-9200-SAS</th>
<th>ARC-9200-2FC/4FC</th>
<th>ARC-9224-iSCSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Ctrl Model No.</td>
<td>ARC-9200SS-DR1</td>
<td>ARC-9200FS-DR1/ARC-9200FS-QR1</td>
<td>ARC-9200IS-DR1</td>
</tr>
<tr>
<td>Dual Ctrl Model No.</td>
<td>ARC-9200SD-DR1</td>
<td>ARC-9200FD-DR1/ARC-9200FD-QR1</td>
<td>ARC-9200ID-DR1</td>
</tr>
</tbody>
</table>

- **I/O Processor:** Dual Core RAID-on-Chip 1.2GHz Processor
- **Management Port:** In-Band: SES-3 / Out-of-Band: LCD, RS232, LAN Port
- **On-Board Cache:**
  - One 204-pin SO-DIMM socket for 2GB (default) DDR3-1600, 1Rx8/2Rx8, ECC module
  - Up to 4GB or 8GB DDR3-1600, 1Rx8/2Rx8, Unbuffered/Registered ECC module
- **Max. Drives per RAID Ctrl:**
  - Up to 4GB or 8GB DDR3-1600, 1Rx8/2Rx8, ECC module
  - One 204-pin SO-DIMM socket for 2GB (default)

**ARC-92xx series subsystem**  
12Gb/s SAS-based Storage Subsystem

<table>
<thead>
<tr>
<th>Chassis Name</th>
<th>ARC-9212-R2</th>
<th>ARC-9216-R3</th>
<th>ARC-9224-R2</th>
<th>ARC-9224-R4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host Interface</td>
<td>2U-12 bays</td>
<td>3U-16 bays</td>
<td>2U-24 bays</td>
<td>4U-24 bays</td>
</tr>
<tr>
<td>Single Ctrl Model No.</td>
<td>9212SS-DR2 / 9212FS-DR2</td>
<td>9216SS-DR3 / 9216FS-DR3</td>
<td>9224SS-DR2 / 9224FS-DR2</td>
<td>9224SS-DR4 / 9224FS-DR4</td>
</tr>
<tr>
<td>Dual Ctrl Model No.</td>
<td>9212SD-DR2 / 9212FD-DR2</td>
<td>9216SD-DR3 / 9216FD-DR3</td>
<td>9224SD-DR2 / 9224FD-DR2</td>
<td>9224SD-DR4 / 9224FD-DR4</td>
</tr>
</tbody>
</table>

- **I/O Processor:** Dual Core RAID-on-Chip 1.2GHz Processor
- **Management Port:** In-Band: SES-3 / Out-of-Band: LCD, RS232, LAN Port
- **On-Board Cache:**
  - Up to 4GB or 8GB DDR3-1600, 1Rx8/2Rx8, ECC module
  - One 204-pin SO-DIMM socket for 2GB (default)

**ARC-8088 series**  
SAS/Fibre/iSCSI to 12Gb/s SAS RAID - Cable Solution

<table>
<thead>
<tr>
<th>Chassis Name</th>
<th>ARC-8088-2S</th>
<th>ARC-8088-2F</th>
<th>ARC-8088-4F</th>
<th>ARC-8088-21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controller Name</td>
<td>ARC-8380</td>
<td>ARC-8681</td>
<td>ARC-8682</td>
<td>ARC-8780</td>
</tr>
<tr>
<td>Daughter Board</td>
<td>ARC-8108</td>
<td>ARC-8607</td>
<td>ARC-8607-4</td>
<td>ARC-8307</td>
</tr>
<tr>
<td>Host Connector</td>
<td>2 x SFP-8644</td>
<td>2 x SFP+</td>
<td>4 x SFP+</td>
<td>2 x SFP+</td>
</tr>
<tr>
<td>Host Bus</td>
<td>2 x 12Gps SAS * 4 lanes</td>
<td>2 x 16Gps Fibre</td>
<td>4 x 16Gps Fibre</td>
<td>2 x 16Gps iSCSI</td>
</tr>
</tbody>
</table>

- **I/O Processor:** Dual Core RAID-on-Chip 1.2GHz Processor
- **Management Port:** In-Band: SES-3 / Out-of-Band: LCD, RS232, LAN Port
- **On-Board Cache:** 2GB on-board DDR3-1866 SDRAM
- **Internal Connectors:** 6 x SFP-8643 connectors
- **Drive Interface:** up to 24 x 12Gb/s SAS ports
- **Max. Drives per RAID Ctrl:**
  - Up to 512 12Gb/s SAS or 6Gb/s and 3Gb/s SAS/SATA HDDs/SSDs, using 12Gb/s SAS JBOD
  - One 204-pin SO-DIMM socket for 2GB (default)

**ARC-9212JS-TR2**
- **Host Interface:**
  - Two 12Gb/s Min SAS port connections via two SFF-8644 connections
- **Expansion Interface per Expander Module:**
  - Two 12Gb/s Min SAS port connections via two SFF-8644 connections
- **Host Interface per Expander Module:**
  - Two 12Gb/s Min SAS HD connections via two SFF-8644 connections
- **Management Port:** CLI through out-of-band RS-232 serial port
- **Enclosure Protocol:** SES 3.0 via inband SAS SMP protocol
- **Power Supply / In / Out:**
  - Dual 595W hot swap, N+1 redundant with PFC
  - Dual 200W
- **RAID Level:**
  - Single Disk or JBOD
  - Single Disk or JBOD
- **On-Board Cache:**
  - ARM Cortex-R4 processor
  - In-band: SAS port / Out-of-band: RS232 serial port

**ARC-9216JS-TR3**
- **Host Interface:**
  - Two 12Gb/s Min SAS port connections via two SFF-8644 connections
  - Two 12Gb/s Min SAS port connections via two SFF-8644 connections
- **Management Port:** CLI through out-of-band RS-232 serial port
- **Enclosure Protocol:** SES 3.0 via inband SAS SMP protocol
- **Power Supply / In / Out:**
  - Dual 595W hot swap, N+1 redundant with PFC
  - Dual 200W
- **RAID Level:**
  - Single Disk or JBOD
  - Single Disk or JBOD
- **On-Board Cache:**
  - ARM Cortex-R4 processor
  - In-band: SAS port / Out-of-band: RS232 serial port

**ARC-9224JS-TR4**
- **Host Interface:**
  - Two 12Gb/s Min SAS port connections via two SFF-8644 connections
  - Two 12Gb/s Min SAS port connections via two SFF-8644 connections
- **Management Port:** CLI through out-of-band RS-232 serial port
- **Enclosure Protocol:** SES 3.0 via inband SAS SMP protocol
- **Power Supply / In / Out:**
  - Dual 595W hot swap, N+1 redundant with PFC
  - Dual 200W
- **RAID Level:**
  - Single Disk or JBOD
  - Single Disk or JBOD
- **On-Board Cache:**
  - ARM Cortex-R4 processor
  - In-band: SAS port / Out-of-band: RS232 serial port
ARC-8028-24 12Gb/s SAS Expander - Cable Solution

I/O Processor: ARM Cortex-R4 processor
Internal Connectors: 6 x SFF-8643 connectors
Drive Interface: Up to 24 12Gb/s SAS or 6Gb/s SATA Drives per expander
External Connectors: 3 x SFF-8644 Min SAS HD connectors
Power Connector: 1 x 6-pin PCI-E power connector
Dimension: 146(W) x 43(H) x 250(L)mm
Management: In-band: SAS port / Out-of-band: RS232 serial port

ARC-4607T2/4320T2/4883T2 Thunderbolt™ 2 Adapter
ARC-4607T3/4108T3/4883T3 Thunderbolt™ 3 Adapter

Device Channel
2 x 16Gb/s Fibre
8 x 6Gb/s SAS
8 x 12Gb/s SAS

Device Connector
2 x SFP+
2 x SFF-8088
2 x SFF-8644
2 x SFF-8644

Controller Inside
ARC-8607
ARC-1320
ARC-1883x
ARC-8108

ARC-4038-8/-12/ML 12 Gb/s SAS JBOD Enclosure

ARC-8050T3 series Thunderbolt™ 3 RAID Storage

ARC-4038ML ARC-4038-8 ARC-4038-12 ARC-8042-12

Host Interface
2 x SFF-8644
2 x SFF-8644 + 1 x SFF-8088
2 x SFF-8644
1 x SFF-8644

Expansion
N/A
2 x SFF-8644
1 x SFF-8644

ARC-8050T3-4 -6M -6 -8 -12

I/O Processor
One-Core 800MHz
6G SAS ROC
Dual Core 1.2GHz SAS ROC

Host Interface
Thunderbolt 3 x 2 / Display Port x 1
SFF-8644 (2-lanes)
SFF-8644 (4-lanes)

Expansion
N/A
N/A
N/A
SFF-8644 (4-lanes)

Form Factor
Desktop 4-bays
Desktop 6-bays
Desktop 8-bays
Desktop 12-bays

Cache
1GB DDR3-800
Desktop 6-bays
2GB DDR3-1866

BBM Support
N/A
ARC-6120BAT021-T3

RAID level:
- ARC-8050T3-4: 0, 1, 10, 3, 5, 6, Single Disk, JBOD
- ARC-8050T3-6/6M/8/12: 0, 1, 10(1E), 3, 5, 6, 30, 50, 60, Single Disk or JBOD

DAS Solution for Video Editing

ARC-8028-24 12Gb/s SAS Expander

ARC-4038-8/-12/ML 12 Gb/s SAS JBOD Enclosure

ARC-8050T3 series Thunderbolt™ 3 RAID Storage

Expander

Thunderbolt™ 3 Adapter
ARC-8050T3 Rackmount Thunderbolt™ 3 Rackmount

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<tr>
<th>Form Factor</th>
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<th>ARC-8050T3-24R</th>
<th>ARC-8050T3 SAN</th>
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<tr>
<td>On Board Cache</td>
<td>2U-12 bays 19-inch</td>
<td>4U-24 bays 19-inch</td>
<td></td>
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<tr>
<td>Host Interface</td>
<td>Thunderbolt™ 3 x 2 / Display Port</td>
<td>Thunderbolt™ 3 x 9</td>
<td></td>
</tr>
</tbody>
</table>

I/O Processor: Dual Core 1.2GHz SAS ROC
Expansion Interface: 1 x SFF-8644 expansion up to 512 HDDs
Disk Bus Interface: 12/24 x 12Gb/s 3.5”/2.5” SAS/SATA HDDs/SSDs
Management Port: Thunderbolt, LCD and LAN Port
RAID Level: 0, 1, 10, 5, 6, 10, 30, 50, 60, Single Disk, JBOD
BBM Support: ARC-6120BAT021-T3

SAN Solution for Video Editing

ARC-8050U3-6 6-bays USB 3.2 Gen 2 to 12Gb/s SAS RAID storage

I/O Processor: Dual Core 1.2GHz SAS ROC
On-Board Cache: 2GB on-board DDR3-1866 SDRAM
Host Interface: 1 x USB 3.2 Gen 2
Expansion Interface: 1 x SFF-8644 expansion (2-lanes)
System Requirements: Computer with a USB-C or Thunderbolt™ 3 port
Management Port: LCD and LAN Port
Physical Dimensions (H x W x D): 4.84 x 8.45 x 9.11 in (146.4x255x290 mm)
RAID Level: 0, 1, 10, 5, 6, 10, 30, 50, 60, Single Disk or JBOD
BBM Support: ARC-6120BAT021-T3

ARC-8050T3U series Thunderbolt™ 3 and USB 3.2 Gen2 RAID Storage

ARC-8050T3U-4 -6M -6 -8 -12

ARC-8050T3U-4

I/O Processor: One-Core 800MHz 6G SAS ROC
Host Interface: Thunderbolt 3 x 2 / Display Port x 1
Expansion: N/A
Cache: 1GB DDR3-800
RAID Level: 0, 1, 10, 5, 6, Single Disk, JBOD

ARC-8050T3U-6

I/O Processor: Dual Core 1.2GHz SAS ROC
Host Interface: Thunderbolt 3 USB-C, USB X.X
Expansion: SFF-8644 (4-lanes)
Cache: 2GB DDR3-1866
RAID Level: 0, 1, 10, 3, 5, 6, 30, 50, 60, Single Disk, JBOD

ARC-8050T3U-8

I/O Processor: One-Core 800MHz 6G SAS ROC
Host Interface: Thunderbolt 3 USB-C, USB X.X
Expansion: SFF-8644 (4-lanes)
Cache: 2GB DDR3-1866
RAID Level: 0, 1, 10, 3, 5, 6, 30, 50, 60, Single Disk, JBOD

ARC-8050T3U-12

I/O Processor: One-Core 800MHz 6G SAS ROC
Host Interface: Thunderbolt 3 USB-C, USB X.X
Expansion: SFF-8644 (4-lanes)
Cache: 2GB DDR3-1866
RAID Level: 0, 1, 10, 3, 5, 6, 30, 50, 60, Single Disk, JBOD
Battery/Flash-based Back-up Modules  
For RAID Adapters

**ARC-6120BAT121**  
P/N: 91-6120BA-T121  
For  
ARC-1882 (1X/2X/4X/xx)  
ARC-12x4 (4i/8i/12i/16iML-24)  
Cable: 2600-1C1212-H000

**ARC-6120BAT121-12G**  
P/N: 91-6120BA-T121-12G  
For  
ARC-1203  
ARC-12x6  
ARC-1884x6-8/12  
ARC-1882P  
ARC-1883  (1X/2X/4X/xx)  
Cable: 2600-1C1212-H000

Battery Back-up Modules  
For RAID Storage or Subsystem

**ARC-6120BAT021**  
P/N: 91-6120BA-T021  
For  
ARC-8040  
ARC-8050T2  
Cable: 2600-1C1212-H000

**ARC-1883-BAT**  
P/N: 91-1883BA-T00C  
For  
ARC-1883x-12/16/24  
Cable: 2600-1C1414-HH000  
On-Board Cache: up to 4-8GB

**ARC-1883-CAP**  
P/N: 91-1883CA-P00C  
For  
ARC-1883 series  
Cable: 2600-1C1414-HH000  
On-Board Cache: default (2GB)

Flash-based Back-up Modules  
For RAID Storage or Subsystem

**ARC-6120BAT121-8**  
P/N: 91-6120BA-T121-8  
For  
ARC-8088 series  
Cable: 2600-1C1412-H000

**ARC-6120BAT021-T3**  
P/N: 91-6120BA-T021-T3  
For  
ARC-8042  
ARC-8050T3-6/8/12  
Cable: 2600-1C1412-H000

**ARC-8008-BBN**  
P/N: 91-800800-BB0C  
For  
ARC-8008 series  
ARC-92xx subsystem  
Cable: 26WA-1C0303-0900

**ARC-8008-FBN**  
P/N: 91-800800-FB0B  
For  
ARC-8008 series / ARC-92xx subsystem  
For  
ARC-9224R2 (2U-24bay)

**ARC-8008-FBN-242U**  
P/N: 91-800800-FB0B-242U  
Cable: 26WA-1C0303-0900

**ARC-1883-BAT-7**  
P/N: 91-1883BA-T00C-7  
For  
ARC-9200  
ARC-92200  
Cable: 2600-1C1414-HH000  
On-Board Cache: up to 4-8GB

**ARC-1883-CAP-7**  
P/N: 91-1883CA-P70C  
For  
ARC-9200  
ARC-92200  
Cable: 2600-1C1414-HH000  
On-Board Cache: default (2GB)
Flash-based Back-up Modules  For RAID Storage or Subsystem

ARC-1883-BAT-8
P/N: 91-1883BA-T00C-8
For ARC-8088 series
Cable: 2600-1C1414-HH00
On-Board Cache: up to 4~8GB

ARC-1883-CAP-8
P/N: 91-1883CA-P00C-8
For ARC-8088 series
Cable: 2600-1C1414-HH00
On-Board Cache: default (2GB)

Control Panel LCD  Setup / Monitor Control Panel LCD Module

ARC-1019  Areca Order No.: 91-1019CB-B10A
5.25” LCD
for ARC-11xx(ML), ARC-12xx(4/4x8/8x),
ARC-1680I-xx, ARC-12x4(4-12/16-ML-24),
and ARC-188x(1/2)LP/IX-xx)

ARC-1035  Areca Order No.: 91-103500-000B
3.5” LCD
for ARC-11xx(ML), ARC-12xx(4/4x8/8x),
ARC-1680I-xx, ARC-12x4(4-12/16-ML-24),
and ARC-188x(1/2)LP/IX-xx)

Cables & Connectors

Mini SAS HD controller to SAS HD/SAS/SATA backplane and SATA disk drives

SFF-8643 to SFF-8643
Internal SAS HD x 4 (SFF-8643) to SAS HD x 4 (SFF-8643)
Internal controller-based fan-out cable
Areca Order No.: 261I-1C4343-0175

SFF-8643 to SFF-8087
Internal SAS HD x 4 (SFF-8643) to SAS x 4 (SFF-8087)
Internal controller-based fan-out cable
Areca Order No.: 261I-1C4336-0175

SFF-8643 to SFF-8208
Internal SAS HD x 4 (SFF-8643) to SATA x 4 (SFF-8208)
Internal controller-based fan-out cable
Areca Order No.: 261I-1C4307-0175

Mini SAS HD controller to SAS HD external enclosure

SFF-8644 to SFF-8644
External Mini SAS HD x 4 (SFF-8644) to SAS HD x 4 (SFF-8644)
External cable
Areca Order No.: 26EE-1C4444-0100

SFF-8644 to SFF-8088
External Mini SAS HD x 4 (SFF-8644) to SAS x 4 (SFF-8088)
External cable
Areca Order No.: 26EE-1C4426-0100

Mini SAS controller to SAS/SATA backplane and SATA disk drives

SFF-8087 to SFF-8087
Internal SAS x 4 (SFF-8087) to SAS x 4 (SFF-8087)
Controller-based fan-out cable
Areca Order No.: 261I-1C3636-6175

SFF-8087 to SFF-8482
Internal SAS x 4 (SFF-8087) to SATA (4) x 1
Controller-based fan-out cable
Areca Order No.: 261S-1C3629-7500

Mini SAS controller to SAS external enclosure

SFF-8088 to SFF-8088
External Mini SAS HD x 4 (SFF-8088) to SAS x 4 (SFF-8088)
External cable
Areca Order No.: 26EE-1C2626-0100

SATA controller to SATA backplane and SATA disk drives

SATA to SATA
Internal SATA (4) x 1 to SATA (4) x 1 internal cable
(1 set *4)
Areca Order No.: 2600-101007-0200

SATA to SATA
Internal SATA (4) x 1 to SATA (4) x 1 internal right-angle cable
(1 set *4)
Areca Order No.: 2600-101007-0401
eSATA controller to eSATA external enclosure

Areca Order No.: 26ES-1C0707-1000

USB 3.2 Gen 1 controller to USB 3.2 Gen 1 external enclosure

Areca Order No.: 26UB-1CA3M3-1S00

Thunderbolt controller to Thunderbolt external enclosure

Areca Order No.: 26TC-1C1212-1M00

USB3.2 Gen 2 controller to USB3.2 Gen 2 external enclosure

Areca Order No.: 26TC-1C1212-1MU0

USB3.2 Gen 2 controller to USB3.2 Gen 2 external enclosure

Areca Order No.: 26TC-1C1212A-1M00

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<td>ARC-1884xl/8/12</td>
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<td>ARC-1888x/12/16/24</td>
<td>ARC-1888x/12/16/24</td>
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<td>ARC-5066-12/16/24</td>
<td>ARC-5066-12/16/24</td>
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<td>ARC-802x-24</td>
<td>ARC-8068-12/16/24</td>
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<td>ARC-8088-12/16/24</td>
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<td>ARC-8088-12/16/24</td>
<td>ARC-8088-12/16/24</td>
</tr>
</tbody>
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Accessories

USB 3.2 Gen 1 Micro-B to Standard-A

Areca Order No.: 26TC-1C1212-1MU0

Thunderbolt 2

Areca Order No.: 26TC-1C1212-1MU0

Thunderbolt 3

Areca Order No.: 26TC-1C1212-1MU0

USB 3.2 Gen 2 Type-C to Type-C adapter

Areca Order No.: 26TC-1C1212A-1M00

USB 3.2 Gen 2 Type-C to Type-A adapter

Areca Order No.: 26TC-1C1212A-1M00

Cables & Connectors

- SFF-8643 to SFF-8643
- SFF-8643 to SFF-8087
- SFF-8643 to SATA(4)
- SFF-8087 to SFF-8087
- SFF-8087 to SATA(4)
- SFF-8087 to SFF-8482
- SFF-8088 to SFF-8088
- SFF-8088 to SFF-8088
- Internal controller-based
- Mini SAS controller to SAS external enclosure
- Mini SAS HD controller to SAS HD external enclosure
- Mini SAS controller to SAS/SATA backplane and SATA disk drives
- Mini SAS HD controller to SAS HD/SAS/SATA backplane and SATA disk drives

Accessories

- USB 3.2 Gen 2 Type-C to Type-A adapter
- USB 3.2 Gen 2 Type-C to Type-C adapter
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<th>Drive Ext. Connector</th>
<th>Drive Support</th>
<th>Default Cache</th>
<th>BBM Support</th>
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<td>SATA (1*1)</td>
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<td>2(SATAII)</td>
<td>On Board DDR3 128MB</td>
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<td>ARC-1203-2i</td>
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<td>SATA II</td>
<td>2</td>
<td>2(16Gb/s SATA)</td>
<td>SFF-8644(4*1)</td>
<td>ARC-6120BAT121-12G</td>
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<td>ARC-1203-4i</td>
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<td>4(6Gb/s SATA)</td>
<td>SFF-8644(4*1)</td>
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<td>4(6Gb/s SAS/SATA)</td>
<td>On Board DDR3-800 1GB</td>
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<td>4(12Gb/s SAS/SATA)</td>
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<td>ARC-1883i</td>
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<td>PCI-e 3.0 X 24 Lanes</td>
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<td>24(12Gb/s SAS/SATA)</td>
<td>SFF-8644(4*1)</td>
<td>ARC-6120BAT121-12G</td>
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<td>ARC-1884vi-8</td>
<td>PCI-e 3.0 X 8 Lanes</td>
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<td>SATA II</td>
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<td>12(12Gb/s SAS/SATA)</td>
<td>SFF-8644(4*1)</td>
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<td>ARC-4320T2</td>
<td>Thunderbolt 2</td>
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### Engineer Team

### Experience

All engineers have above twenty years experience in storage products. Successfully created the DC-390 Series SCSI controller & become the best reputation SCSI controller in the World. PCI IDE Controllers for National Semiconductor, IDE Disk Cache Controllers for Buslogic, SCSI Disk Cache Controllers, SCSI Controllers, PCI Main board, EISA Main board and Local bus Main Board Capability Writing its own firmware, BIOS, software application, and device drives Designing IDE controller and Disk Cache Controllers Our RAID controller has been approved and used in Sony and Gateway NAS system.

### Technology

64-bit/66MHz 8 channels IDE controller, extreme performance RAID 6 controller and modular RAID firmware on the RAID controllers to achieve high data throughput and availability.

### Office

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