P110V04 iSCSI-SATA 1U4 Storage System

Outstanding Performance
The P110V04 IOPS is 45,000 at maximum, much higher than other storage systems within the same segment in the current market; besides, its throughput is 300MB/Sec. at maximum.

Applications
The optimized IOPS and throughput are capable of providing run-time critical online services, such as Cloud storage, SQL, Exchange, and high-end surveillance storages. Furthermore, with the iSCSI interface, The P110V04 is ideal for virtualization environments - VMWare, Hyper-V, and Citrix. Users can install OS in the iSCSI system through the Boot-from-SAN feature. With this feature, the OS/Server can be managed easily and well protected by Qsan’s advanced data protection features.

Green
All P110V04 systems are equipped with Qsan’s default green features for power saving. In most cases, the hard drives consume most power. With the auto disk spin down feature and proper configuration, the power consumption of hard drives can be reduced to a minimum, and users will not even notice this feature. The power supply module is 80 PLUS power efficient for better power converting rate. In virtue of the reduction of hard drive power consumption and the energy-efficient power supply, the unnecessary power cost is decreased greatly.

Ordering Information

<table>
<thead>
<tr>
<th>Controller Configuration</th>
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<tbody>
<tr>
<td>P110V04</td>
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<table>
<thead>
<tr>
<th>Optional Components</th>
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<tbody>
<tr>
<td>BBM</td>
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<tr>
<td>QReplica</td>
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### Hardware Components

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td>RAID Controller</td>
<td>Single controller</td>
</tr>
<tr>
<td>No. of Host Channels</td>
<td>2 x iSCSI</td>
</tr>
<tr>
<td>Cache Memory</td>
<td>1GB, up to 2GB</td>
</tr>
<tr>
<td>No. of Hard Drives (SATA II)</td>
<td>4</td>
</tr>
<tr>
<td>Power Supply</td>
<td>200W</td>
</tr>
<tr>
<td>Fan</td>
<td>3</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1U 19” Rackmount</td>
</tr>
<tr>
<td></td>
<td>447.0mm x 480.0mm x 43.2mm (W x D x H)</td>
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</tbody>
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### Feature Highlights

#### Green
- Auto disk spin down
- 80 PLUS energy-efficient power supply

#### iSCSI
- Jumbo frame
- Header/Data digest
- CHAP authentication
- Up to 32 sessions
- Up to 64 connections

#### RAID & Volume
- RAID level 0, 1, 0+1, 3, 5, 6, 10, JBOD, N-way mirror
- Up to 256 logical volumes
- One logic volume can be shared by as many as 8 hosts
- Global and dedicated hot spare
- Write-through or write-back cache policy
- Online volume expansion
- Instant RAID volume availability
- Auto volume rebuilding
- On-line volume migration without system down time

#### High Availability
- Multi-path & load-balancing support
  - Microsoft MPIO,
  - MC/S,
  - Trunking,
  - LACP

#### Advanced Data Protection
- QSnap snapshot
- Volume cloning
- Configurable N-way mirror
- Online disk roaming
- Instant volume configuration restoration

#### Management
- LCM; Serial console; SSH telnet; HTTP Web UI; iSNS; S.E.S.

#### Notification
- Email; SNMP trap; Browser pop-up windows; Syslog; Windows Messenger

#### OS Support
- Windows; Linux; Solaris; Mac

#### Virtualization
- VMWare; Hyper-V; Citrix

#### Warranty
- 3-year warranty for system

### Requirements

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>AC Input</td>
<td>100-240V ~ 3A-1.3A 1 x 200W with PFC (Auto Switching)</td>
</tr>
<tr>
<td>DC Output</td>
<td>5V-2A; 12V-14A</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>10 to 40°C</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>5% to 95% non-condensing</td>
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