IS-1200

Architectural and Engineering Specifications

Version 1.1

(July. 19. 2024)

**PART 1: PLEASE REFER TO ATTACHED DOCUMENTS - OVERVIEW & FORMAT SAMPLES**

**PART 2: PRODUCTS**

**Division 28 – Electronic Safety and Security**

**Level1 28 05 00 – Common Work Results for Electronic Safety and Security**

**Level2 28 05 19 – Storage Appliances for Electronic Safety and Security**

## Manufacturer

1. IDIS Co., Ltd.
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## General

### Product Description

IS-1200 is a Storage enclosure provided by IDIS. This device is a 19-inch, rack-mountable Serial Attached SCSI(SAS) and Near Line Serial Attached SCSI(NL-SAS) storage enclosure. It supports RAID levels 5, 6. This product will support up to 12 hot-swappable 3.5”, and also supports 12Gbps connectivity via SAS and NL-SAS interface. It provides a cost-effective storage solution while still maintaining performance.

\*Disclaimer: IR-1200 must have RAID controller to be connected to IS-1200.

### Technical Specification

1. Storage enclosure shall be equipped the drive which sized as 3.5”(inches).
2. Storage enclosure shall support Serial Attached SCSI(SAS) and Near Line Serial Attached SCSI(NL-SAS) with 12Gbps
3. Storage enclosure shall support up to 12 drives.
4. Storage enclosure shall support a maximum 144TB Raw of storage capacity. (12 bay x 12TB NL-SAS 3.5” HDDs)
5. Storage enclosure shall support RAID 5, 6
6. Storage enclosure shall support controlling RAID mode on IR-1200 RAID configuration tool.
7. Storage enclosure shall support hot-swapping feature for drives.
8. Storage enclosure shall be linked to up to 8 enclosures.
	1. Total 8 enclosures can be attached to IR-1200.
	2. Single chain, Multi-chain, and Redundant configurations are supported.
9. Storage enclosure shall have 2 HA Enclosures Management Module(EMM) per enclosure, providing redundant enclosure management capability with iDRAC or SHMCLI.

### Hardware Specification

1. Interface:
	1. Ipass (Mini-SAS), Two (One in, Other is out)
	2. Drives <–> IR-1200: SAS, NL-SAS
	3. IS-1200 <–> IR-1200 or IS-1200: mini SAS HD,
	4. Enclosures Management Module(EMM): 2 x 4-lane 24Gbps SAS host connect per EMM
2. Number of Drive Bays: 12
3. Drive Size: 3.5”
4. Drive Connection Type: NL-SAS 3.5”
5. Maximum storage capacity: 144TB (12bay x 12TB NL-SAS 3.5” HDDs)
6. Compatible device: IR-1200

### Enclosure Expansion

1. IS-1200 support up to Up to 8 Expansion Storage for IR-1200.

### Physical Specification

1. Form Factor: 2U Rack Mount Chassis
2. Rack Rail System: Sliding rail system with cable management arm.

### Electrical Specification

1. **Power supplies**

Power Input : 100-240V AC, 50/60Hz

Power Supply : Redundant, Hot Swappable

Power Capacity/Consumption : 800W

### Environmental Specification

1. Temperature:

Operating: 0° to 40°C (32F° to 104°F)

Storage: -40° to 65°C (-40° to 149°F)

1. Relative humidity:

Operating: 8% to 85% Relative humidity

Storage: 10% to 95% Relative humidity

1. Altitude

Operating: -16 to 3048 m (-50 to 10,000 ft)

Storage: -16 to 10,600 m (-50 to 35,000 ft)

### Certifications

Emissions Classification(EMC): FCC Rating Class A

CISPR 22, EN55022, EN55024, FCC CFR 47, Pt 15, ICES-003, CvNS14336-1, CNS13438, GB4943, GB9254, EN 61000-3-2, EN61000-3-3

Directives: RoHS, Reach(SVHC), WEEE

# Version History

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| --- | --- | --- | --- |
| **Version** | **Writer** | **Revision Date** | **Remarks** |
| 1.0 | Roy Lee | July. 19. 2024 | Initial Release |
| 1.1 | Roy Lee | July. 24. 2024 | Modified Compatible device, and Enclosure Expansion. |