DA-ES1104B

Architectural and Engineering Specifications

Version 1.1

(Apr. 06, 2021)

**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

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# General

### Product Description

DA-ES1104B is an eSATA Storage designed and manufactured by IDIS. This eSATA storage is a 19-inch, rack-mount Serial ATA external storage device. It supports RAID (levels 0, 1+0, and 5) for improved data stability and performance. This product is available to input up to 4 HDDs, and supports 3.0Gbps transfer rate (SATA II). It supports the maximized space and capacity relative to cost.

### General Specification

1. eSATA storage shall be equipped the drive which sized as 3.5” (inches).
2. eSATA storage shall support SATA II drives up to 4 with 3Gbps transfer rate.
3. eSATA storage shall support enhanced data stability and performance with various levels of RAID (0, 1+0, and 5).
4. eSATA storage shall support the drive capacity 16TB for max. (up to 4TB per bay)
5. eSATA storage shall show the system status via front 6 LEDs: Power, D1 to D4 (HDD/RAID mode LED), and eSATA.
6. eSATA storage shall support controlling RAID mode via RAID option switch on the rear panel.
7. eSATA storage shall support easy scalability for the HDD space.
8. Using the mute button, eSATA storage shall support turning off the audio warnings.
9. eSATA storage shall support SATA to SATA port multiplier.

### Hardware Specification

1. Interface: eSATAx1
2. Number of Drives: SATA IIx4
3. Drive Size: 3.5”
4. Drive Type: SATA II

Supported Device : DR-2304P(-A)/08P(-A)/16P(-A), DR-4308P/16PS, DR-6308P-(S)A/16PS-(S)A/32PS-(S)A, DR-2404P(-A), DR-6508P/16P/32P, TR-4408(R)/16(R), DR-6308P(-S)/16PS(-S)/32PS(-S), IR-300

### Performance

1. Type of Rate: SATA II (3Gbps)
2. RAID: 0, 1+0, 5
3. Max Drive Capacity: 16TB (UP to 4TB per Bay)

## Technical Specification

### Front Panel – LEDs

1. PWR (Power LED): Lit when the system is operating.
2. D1 to D4 (HDD/RAID mode LED)
3. eSATA (eSATA LED): Blue LED is lit when the unit is connected to a NVR.
4. Setup Button: Initializes RAID or mutes audio warnings. (available to be locked using RAID option switch on the rear panel)
* System status indicated by audio warnings can be identified by the frequency of beeps per second.
	1. Once per second: FAN error has occurred.
	2. Twice per second: RAID rebuilding has started.
	3. Three times per second: HDD error has occurred.
	4. Five times per second: RAID initialization is ready.

### RAID Option Switch Settings

1. RAID Type 1 / RAID Type 2

|  |  |  |
| --- | --- | --- |
| RAID Type1  | RAID Type2 | Mode |
| OFF (Down) | OFF (Down) | SATA Port Multiplier |
| OFF (Down)　 | ON (Up) | RAID 1+0 |
| ON (Up) | OFF (Down)　 | RAID 0 |
| ON (Up)　 | ON (Up) | RAID 5 |

1. Display

|  |  |
| --- | --- |
| Option Switch | Display |
| ON (Up) | RAID Mode |
| ONFF (Down) | HDD Status |

1. RAID Mode

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LED D1 | LED D2 | LED D3 | LED D4 | RAID Mode |
| Green | OFF | OFF | Red | SATA Port Multiplier |
| Green | OFF | Green | Red | RAID 1+0 |
| Green | Green | OFF | Red | RAID 0 |
| Green | Green | Green | Red | RAID 5 |

## Environmental Specification

1. Operating Temperature: 0°C ~ 45°C (32°F ~ 113°F)
2. Operating Humidity: 0% to 90% (Non-condensing)

## Electrical Specification

1. Power Source: 100V~240VAC, 0.6~0.3A, 50/60Hz
2. Power Consumption: Max. 40W
3. Regulatory Approvals: FCC, CE

## Mechanical Specification

1. Dimensions (W x H x D): 480mm x 44mm x 346mm (18.9” x 1.7” x 13.6”)
2. Unit Weight: 6.4kg (14.11 lb)

# Version History

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Writer** | **Revision Date** | **Remarks** |
| 1.0 | TS Team | Sep. 10. 2020 | Initial Release |
| 1.1 | TS Team | Apr. 06. 2021  | Spec Update |