

Raidon iT5440 - Internal 4-Bay 2.5" SATA JBOD Storage Expansion Module

Four Independent SATA Connections Supports four drives in a single standard 5.25" drive bay

The [Raidon](#) iT5440 is a precision-engineered JBOD module that accommodates four 2.5-inch SATA HDDs or SSDs in a single standard 5.25-inch bay, maximizing storage density in space-constrained

systems. **RAIDONTEK** Four independent SATA 6Gb/s interfaces provide direct drive visibility to the host, enabling flexible use for backup, media storage, data acquisition, or host-managed RAID configurations.

Its rugged, short-depth metal chassis, MCU-controlled cooling and temperature alerts, and lockable hot-swappable drive trays make the iT5440 well suited for industrial PCs, workstations, edge systems, and compact servers requiring efficient drive access and simplified maintenance.



Key Features

1. High-Density 4-Bay Storage

Fits four 2.5-inch SATA HDDs or SSDs into one standard 5.25-inch bay, ideal for compact

workstations, industrial PCs, edge systems, and servers

2. Four Independent SATA Connections

Each drive uses its own SATA 6Gb/s connection for direct host control, with no port

multiplication or shared module-side bandwidth

3. Direct OS-Level Drive Access

JBOD operation presents each drive independently to the operating system for OS, cache, backup, archive, media, or software RAID use

4. Lockable Hot-Swap Trays

Removable key-lock trays simplify drive replacement and help prevent unintended removal. Hot-swap support depends on the host controller, BIOS, and operating system





5. MCU-Based Monitoring

An onboard MCU monitors fan operation and temperature, providing LED and buzzer alerts



when abnormal conditions are detected

6. Full-Metal Chassis and Active Cooling

The rigid metal chassis, optimized airflow, and built-in 40 mm fan help maintain stable



operating temperatures

7. Front-Panel Status LEDs

Individual LEDs provide clear front-panel indication of drive access and activity



Benefits

Buying Consideration	User Need	iT5440 Advantage
High-Density Storage	Add capacity without enlarging the system.	Fits four 2.5" SATA drives in one 5.25" bay.
Independent Drive Use	Assign drives to different tasks.	JBOD provides direct OS access to each drive.
Dedicated Performance	Maintain stable bandwidth per drive.	Four independent SATA 6Gb/s connections.

Buying Consideration	User Need	iT5440 Advantage
System Monitoring	Detect cooling issues quickly.	MCU alerts for fan failure and high temperature.
Easy Drive Service	Replace drives from the front.	Lockable, hot-swap-ready drive trays.*
Simple Integration	Reduce installation complexity.	Compact four-drive design simplifies system assembly.
Cooling and Durability	Support reliable operation.	Full-metal chassis with active cooling.

*Hot-swap support depends on the host controller, BIOS, and operating system

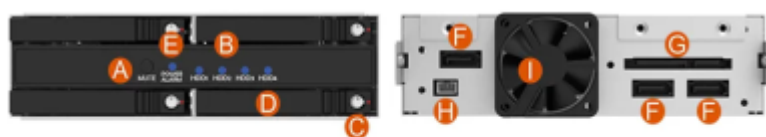
Applications

- **Video Surveillance & NVR** – Organize recording drives by camera, retention period, or recording task for efficient surveillance storage.
- **Data Backup & Archiving** – Manage independent drives for backup rotation, off-site storage, and long-term data retention.
- **Media Production & Post-Processing** – Separate SSDs and HDDs for editing, caching, active projects, and media archives.
- **Scientific Research & Data Analysis** – Allocate dedicated drives for data collection, processing, analysis, and backup.
- **Software Development & Virtualization** – Isolate virtual machines, containers, source code, and project backups across separate drives.
- **Industrial Computing & Edge Systems** – Provide reliable, service-friendly storage for industrial PCs and edge computing platforms.
- **Small Office & Server Storage Expansion** – Increase internal storage capacity without modifying the existing chassis or adding external storage.



**Small Office & Server
Storage Expansion**

Product View



A. Mute Button
B. HDD Status Indicator LED
C. Tray Key Lock
D. HDD Tray
E. Power & Alarm LED Status Indicator

F. SATA Port x 3
G. 7+15 Pin SATA Connector
H. Fan Connector
I. Cooling Fan

Product Specification

Model No	iT5440
Host Interface	4 × SATA 7-pin data connections, one per drive
Power Input	1 × SATA 15-pin power connector
Supported Drives	2.5" SATA III / II / I HDDs or SSDs ×4
Operating Mode	JBOD / Independent Drive Access
Enclosure Monitoring	MCU-based fan failure and over-temperature monitoring
Alert System	LED and audible buzzer alerts for enclosure abnormal conditions
Drive Status Indication	Front-panel LEDs for drive access/activity
Cooling System	40 mm low-noise fan
Operating System Support	Windows, Linux
Certifications	CE, FCC, RoHS
Dimensions	140 x 148 x 43 mm (L x W x H)
Packaged Weight	Approximately 0.8 kg per unit, excluding drives
Carton Quantity	10 pcs per carton
Included Accessories	• SATA cable x4 • Keys and accessory kit • Quick Installation Guide x1