

## Internal Storage Solutions

**INTEGRATED. FITTING. EFFICIENT.**

RaidSonic is known for its high-quality solutions for internal storage solutions. The development ranges from solid backplanes for 2.5 and 3.5 inch SSDs to carrierless EasySwap hard disk mobile racks, screwless hard disk enclosures and the latest M.2 NVMe enclosures with rapid data transfer rates of up to 64 Gbit/s. For existing computer systems, we still offer versatile variants with technical and practical refinements for internal solutions. Simple mobile racks or complex backplane systems can be found in our portfolio, as well as converters or frames for PCI slots.

**#CREATEYOURWORKSPACE**



## INTERNAL STORAGE SOLUTIONS



PCIe 4.0 x4  
64 Gbit/s

PCIe extension card with M.2 M-Key socket  
for one M.2 NVMe SSD  
IB-PCI214M2-HSL

- » PCIe 4.0 x4 with up to 64 Gbit/s
- » Supports M.2 sizes of 22x 30/42/60/80 mm
- » Optional full or half profile bracket
- » Including a massive heat sink with blue LED highlight
- » Compatible with Windows® 10



Passive  
cooling

RGB



M.2 NVMe SSD



PCIe 4.0 x4  
64 Gbit/s

PCIe extension card with M.2 M-Key socket  
for one NVMe SSD  
IB-PCI208-HS

- » M.2 PCIe NVMe to PCIe 4.0 x4 with up to 64 Gbit/s
- » Supports M.2 sizes of 22x 30/42/60/80 mm
- » Use of double-sided SSDs possible
- » Optional full or half profile bracket
- » Aluminium heat sink plus thermal pad



Passive  
cooling



M.2 NVMe SSD



Supports  
PCIe 4.0 x4



Full & half  
profile  
bracket



PCIe 4.0 x4  
64 Gbit/s

PCIe extension card for one M.2 NVMe SSD  
with RGB lighting  
IB-PCI224M2-ARGB

- » Converts M.2 NVMe SSD to PCIe 4.0 x4
- » Data transfer rate up to 64 Gbit/s
- » Supports M.2 sizes of 22x 30/42/60/80 mm
- » Stylish ARGB LED illumination via 3 pin connector
- » Use of double-sided SSDs possible
- » Optional full or half profile bracket
- » Large passive heat sink for ideal heat dissipation



Passive  
cooling

ARGB



M.2 NVMe SSD



Supports  
PCIe 4.0 x4



For  
NVMe SSD  
&  
SATA SSD

PCIe extension card for 2x M.2 SSD  
including heat sinks  
IB-PCI215M2-HSL

- » M.2 B-Key for M.2 SATA (AHCI) SSD with B-Key or B+M-Key
- » SATA III data transfer rate up to 6 Gbit/s
- » Including profile brackets in 80 and 120 mm
- » Supports M.2 sizes of 22x 30/42/60/80/110 mm
- » Including heat sinks for one 2280 and one 22110 M.2 SSD each



Passive  
cooling



M.2 NVMe SSD



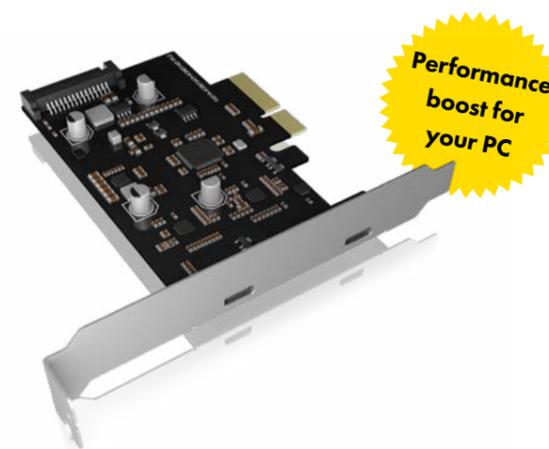
Supports  
PCIe 4.0 x4



SATA III  
6 Gbit/s

20 Gbit/s

# TOP CLASS DATA TRANSFER RATE



Performance  
boost for  
your PC

USB Type-C® PCIe controller card  
IB-PCI1902-C31

- » Expands the PC with two external USB Type-C® 3.2 Gen 2 ports with up to 10 Gbit/s
- » PCI-Express base specification revision 3.0 (x4 lanes)
- » Fits in PCIe x4, x8 and x16 slot
- » Asmedia ASM1543 and ASM3142 USB 3.2 Gen 2 controllers
- » Compatible with Windows®, Linux®



1x  
USB Type-C®



Supports  
PCIe 3.0 x4



Full & half  
profile  
bracket



Up to  
20 Gbit/s

USB Type-C® PCIe controller card  
IB-PCI1901-C32

- » Expands the PC with two external USB Type-C® 3.2 Gen 2 ports with up to 10 Gbit/s
- » PCI-Express base specification revision 3.0 (x4 lanes)
- » Fits in PCIe x4, x8 and x16 slot
- » Asmedia ASM1543 and ASM3142 USB 3.2 Gen 2 controllers
- » Compatible with Windows®, Linux®



1x  
USB Type-C®



RGB



Supports  
PCIe 3.0 x4



# SEAMLESS INTEGRATION



Frontpanel with USB ports and card readers  
**IB-HUB1417-i3**

- » Fits a standard 3.5" bay
- » 1x USB Type-C<sup>®</sup> with up to 5 Gbit/s
- » 2x USB Type-A with up to 5 Gbit/s
- » SD/microSD card readers (UHS-I) up to 100 MB/s
- » Multi-LUN – enables the simultaneous use of two cards
- » Supports HC-I and XC-I standards up to 2 TB
- » Solid metal frame

3.5" Bay

1x USB Type-C<sup>®</sup>

2x USB Type-A

SD/microSD card reader



Frontpanel with USB ports  
**IB-HUB1418-i3**

- » Fits a standard 3.5" bay
- » 1x USB Type-C<sup>®</sup> with up to 5 Gbit/s
- » 3x USB Type-A with up to 5 Gbit/s
- » Solid metal frame

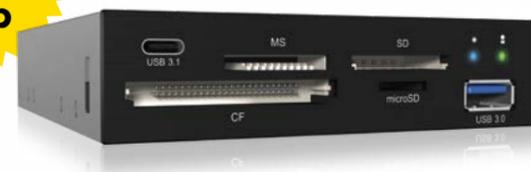
3.5" Bay

1x USB Type-C<sup>®</sup>

3x USB Type-A



Multi card reader for 5.25" bay  
**IB-867a**



Multi card reader for 3.5" bay  
**IB-865a**

- » Input: 1x 19 pin USB 3.0, 2x 9 pin USB 2.0, 1x USB 3.2 Gen 2 header
- » Output: 4x USB 2.0 Type-A, 1x USB 3.0 Type-A, 1x USB 3.2 Gen 2 Type-C<sup>®</sup>, 1x SD and microSD, 1x CF, 1x MS PRO
- » 4x card reader, 6x USB data port, 1x USB charging port
- » USB 2.0 up to 480 Mbit/s, USB 3.0 up to 5 Gbit/s, USB 3.2 Gen 2 up to 10 Gbit/s
- » USB Type-A charging port with BC 1.2 support
- » SD/microSD 3.0 up to 100 MB/s, CF 6.0 up to 167 MB/s, MS PRO approx. 20 MB/s

- » Input: 19 pin USB 3.0 header, USB 3.2 Gen 2 header
- » Output: USB 3.2 Gen 2 Type-C<sup>®</sup>, USB 3.0 Type-A, SD and microSD, CF, MS
- » 4x card reader and 2x USB data port
- » USB 3.0 up to 5 Gbit/s, USB 3.2 Gen 2 up to 10 Gbit/s
- » SD/microSD 3.0 up to 100 MB/s, CF 6.0 up to 167 MB/s, MS PRO approx. 20 MB/s
- » Compatible with Windows<sup>®</sup>

5.25" Bay

1x USB Type-C<sup>®</sup>

5x USB Type-A

SD/microSD card reader

CF/MS card reader

LED

3.5" Bay

1x USB Type-C<sup>®</sup>

1x USB Type-A

SD/microSD card reader

CF/MS card reader

LED



## INTERNAL STORAGE SOLUTIONS

U.2 not only describes the form factor, namely 2.5" for SATA and SAS and U.2 (SFF-8639) SSDs, but also describes the PCIe x4 NVMe connection with data transfer rates of up to 64 Gbit/s. ICY BOX® has a selection of different U.2 products in its portfolio, ranging from multiple backplanes, PCIe expansion cards and adapter cables to the stylish M.2 PCIe NVMe enclosure IB-M2U04. The latter is not only distinguished by its enclosure made of high-quality full aluminium, but also has excellent cooling properties due to its cooling fin design.



Full aluminium

### M.2 NVMe to U.2 (SFF-8639) converter IB-M2U04

- » Converts M.2 PCIe NVMe to 2.5" U.2 (SFF-8639) NVMe
- » PCIe 4.0 x4 with up to 64 Gbit/s
- » M.2 M-Key socket
- » Supports M.2 SSD sizes of 22x 30/42/60/80 mm
- » Aluminium enclosure in cooling fin design
- » Total height of 9.5 mm



Passive cooling

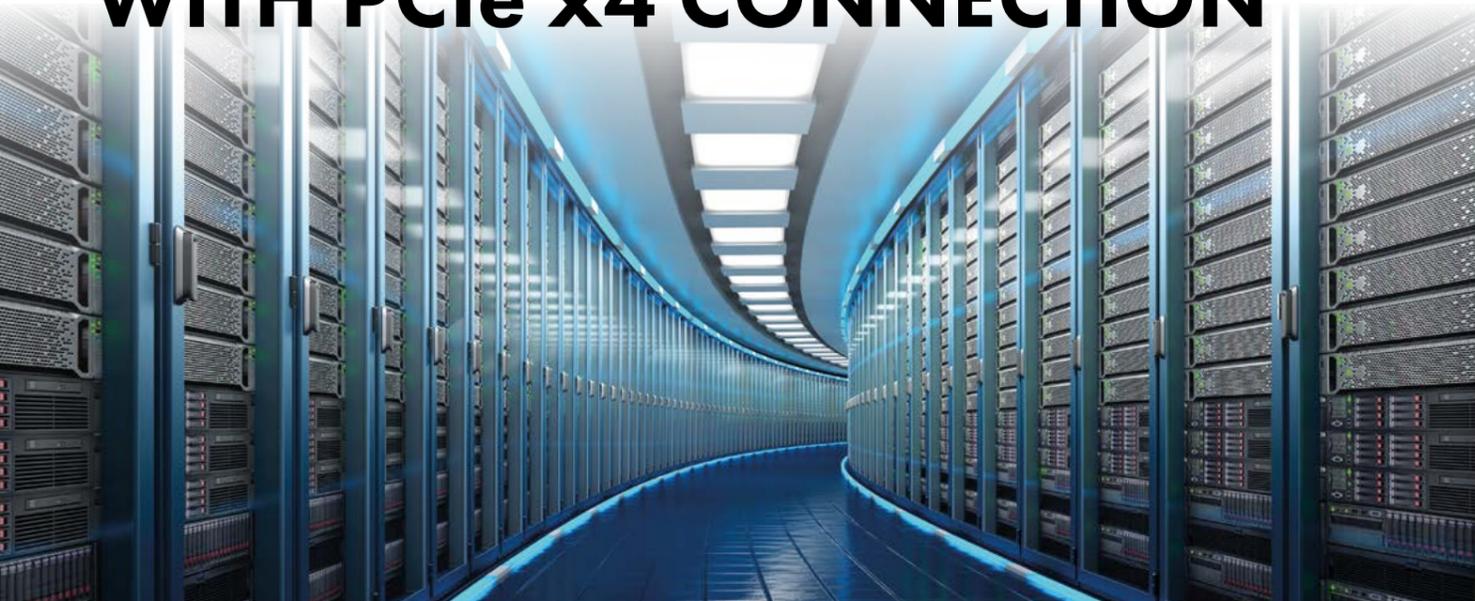


M.2 NVMe SSD



Supports PCIe 4.0 x4

# U.2 SSD – RAPID SPEEDS WITH PCIe x4 CONNECTION



For HDD/SSD up to 15 mm height



### Mobile rack for 2.5" U.2/SATA/SAS drives IB-2212U2

- » Supports 2.5" U.2 (SFF-8639) NVMe SSD or SATA/SAS HDD/SSD
- » Host interface via U.2 (SFF-8639) NVMe up to 32 Gbit/s
- » Full aluminium and steel mobile rack for a 3.5" bay
- » HotSwap, Plug & Play and no capacity limit
- » Key lock to secure the drive
- » LED indicator for power and access
- » Compatible with Windows® and macOS®



2.5" Bay



HOT SWAP



PLUG & PLAY



LED



Key Lock

For U.2, SATA III & SAS SSD



### Backplane for 4x 2.5" U.2 SSD IB-2242U2K

- » Supports U.2 (SFF-8639) SSD with up to 32 Gbit/s
- » Host interface via 4x U.2/Mini SAS HD (SFF-8643)
- » Full aluminium and steel backplane for a 5.25" bay
- » Individually lockable trays
- » LED indicator for power and access
- » Two 40x40x10 mm fans
- » Compatible with Windows®



2.5" Bay



For 4x U.2 SSD



Fan

For server, workstation & PC



### PCIe extension card for 2.5" U.2 NVMe or SATA SSD IB-PCI2017-U2

- » Expands the PC with a 2.5" U.2 (SFF-8639) NVMe SSD to PCIe 3.0
- » PCI-Express base specification revision 3.0 (4 lanes)
- » Fits in a PCIe x4, x8 or x16 slot
- » Perfect for server, workstation and desktop PC
- » Supports U.2/PCIe 3.0 data transfer rates of up to 32 Gbit/s
- » Additional support for SATA III drives with up to 6 Gbit/s
- » Compatible with Windows®



2.5" Bay



For 1x U.2 SSD



SATA III 6 Gbit/s





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