

WINGSONIC®
賀豪科技股份有限公司

TOOLFREE®
賀禧電子有限公司



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WINGSONIC®

『 Focused on HDD Enclosure for 12 years 』



全球免工具硬碟抽取盒的開創者
The Pioneer of Tool-Free HDD Enclosure

MRA180

2.5" Internal HDD Enclosure

- Fits 3.5" Floppy space
- Supports 2.5" HDD (6.0Gbps) ; 7~12.5mm thickness
- Patent NSS connector lengthen HDD hot swap cycle more than 50,000 times
- No Lock / No LED indicator
- Tool-Free & Tray-less

**MRA760**

2.5" + 3.5" Internal Enclosure with 2 x USB ports

- Supports 2.5" + 3.5" HDD (6.0Gbps)
- Patent NSS connector lengthen HDD hot swap cycle more than 50,000 times
- Individual power switch for 2.5" & 3.5" HDD
- Outer case / 2.5" Aluminum door / 3.5" Zinc door handle
- With two USB ports : USB 3.0 type A + USB 3.1 type C (optional)
- Tool-Free & Tray-less

**MRA367**

8 x 2.5" 15mm Internal Enclosure

- Supports 2.5" SATA/SAS HDD (6.0Gbps) ; 7~15mm thickness
- Patent NSS connector lengthen HDD hot swap cycle more than 50,000 times
- Tray design with All Metal Parts
- Aluminum Panel / Metal Housing
- Mechanical Lock keeps HDD working securely
- LED indicator let users check working status any time
- Built-in two 5x5 cm fan and good heat ventilation
- Hot connectors: 2 x Mini SAS SFF8087
- Supports SATA I/II/III and SAS I/II (Primary Channel) HDDs
- Weight:1450g

**MRA503R**

1 x 2.5" + 2 x 3.5" Raid Internal Enclosure

- 1 x 2.5" supports 2.5" HDD (6.0Gbps) ; 7~12.5mm thickness
- 2 x 3.5" supports 3.5" SATA HDD (6.0Gbps)
- Patent NSS connector lengthen HDD hot swap cycle more than 50,000 times
- 95% Metal Parts / Aluminum outer case / Zinc door handle
- Built-in 6x6 cm fan
- Tool-Free & Tray-less
- Weight: 1415g

**Smart Features**

- RAID function: Raid0 / Raid1 / JBOD / NOR (No-Raid)
- Intelligent fan controller, with alarm setting at 55/60/65°C
- Individual power control and LED indicator
- With HDD alignment pointed arm

MRA277

2.5" 15mm Internal Enclosure

- Supports 2.5" SATA/SAS HDD (6.0Gbps) ; 7~15mm thickness
- Patent NSS connector lengthen HDD hot swap cycle more than 50,000 times
- Tray design with All Metal Parts
- Aluminum Panel / Metal Housing
- Mechanical lock keeps HDD working securely
- LED indicator let users check working status any time
- Individual power switch to manage the HDD
- Weight: 420g



MRA267

4 x 2.5" 15mm Internal Enclosure

- Supports 2.5" SATA/SAS HDD (6.0Gbps) ; 7~15mm thickness
- Built-in two 3.5x3.5 cm fan and good heat ventilation
- Weight: 740g



MRA210 Pro

3.5" Internal Enclosure

- Supports all 3.5" SATA/SAS HDD (6.0Gbps)
- Patent NSS connector lengthen HDD hot swap cycle more than 50,000 times
- 95% Metal Parts / Zinc door handle
- Metal Lock / Dual LED indicator
- With HDD alignment spring to support thinner HDD in vertical PC environment.
- Tool-Free & Tray-less
- Weight: 312g



MRA210

1 x 3.5" SATA/SAS 6.0Gbps Enclosure

- Supports all 3.5" SATA/SAS HDD (6.0Gbps)
- Patent NSS connector lengthen HDD hot swap cycle more than 50,000 times
- 95% Metal Parts / Aluminum outer case / Zinc door handle
- With HDD alignment spring / Metal Lock
- Dual LED indicator / 3.5x3.5cm fan
- Tool-Free & Tray-less
- Weight: 676g



Smart Features

- Intelligent fan controller, with alarm setting
- Individual power control and LED indicator
- Simple version w/o smart features for selection

3.5" Internal Enclosure

MRA503

- 3.5" x 3 bay Internal Enclosure
- Built-in 6*6 cm fan
- Weight: 1320g



MRA504

- 3.5" x 4 bay Internal Enclosure
- Built-in 8*8 cm fan
- Weight: 1793g



MRA505

- 3.5" x 5 bay Internal Enclosure
- Built-in 8*8 cm fan
- Weight: 1704g



- Supports all 3.5" SATA/SAS HDD (6.0Gbps)
- Patent NSS connector lengthen HDD hot swap cycle more than 50,000 times
- 95% Metal Parts / Aluminum outer case / Zinc door handle
- Tool-Free & Tray-less

Smart Features

- Intelligent fan controller, with alarm setting at 55/60/65°C
- Individual power control and LED indicator
- With HDD alignment pointed arm
- Simple version w/o smart features for selection

1U4Bay Industrial PC Module and Enclosure



MRA304

- 3.5" SATA/SAS * 1U4Bay Module
- Interface: SATA 7+15 PIN
- No PCBA / No LED function

MRA304-SATA

- 3.5" SATA/SAS * 1U4Bay Module with PCBA
- Host connectors: 4 x SATA 7Pin + 2 x Molex 4Pin

MRA304-Mini SAS

- 3.5" SATA/SAS * 1U4Bay Module with PCBA
- Host connectors: 1 x Mini SAS SFF8087 + 4 x Moles 4Pin



- Supports all 3.5" SATA/SAS HDD (6.0Gbps)
- Patent NSS connector lengthen HDD hot swap cycle more than 50,000 times
- 95% Metal Parts / Metal Lock / Zinc door handle / Stainless steel rack
- Module design without casing to fit in 1U case
- With HDD alignment spring
- Tool-Free & Tray-less



- Industrial Chassis with 17" in Depth
- Patent NSS connector lengthen HDD hot swap cycle more than 50,000 times
- Built-in 150W Flex power supply and two 4x4cm fans

- Indicators: LED for Power and HDD
- Material: SECC, SUS430, PC
- Size: 430*44.5*402 mm
- Weight: 6.5 KG

MRA305

- 1U 4Bay 3.5" SATA/SAS Trayless Rackmount Enclosure
- Interface: Mini SAS SFF8088
- Supports 3.5" SATA/SAS HDD (6.0 Gb/s)



MRA306

- 1U 4Bay 3.5" SATA Trayless Rackmount Enclosure
- Interface: USB3.0+eSATA+Raid (0\1\5\10\JBOD\PM, for SATA HDD only)
- Supports 3.5" SATA HDD (3.0 Gb/s)



MRA275L Pro

2 x 2.5" Internal HDD Enclosure



- Supports 2.5" HDD (6.0Gbps) ; 7~9.5mm thickness
- Patent NSS connector lengthen HDD hot swap cycle more than 50,000 times
- Aluminum case / SPCC back cover / Plastic panel



- Power and access LED indicator
- With Lock ensures data-safety
- Tool-Free & Tray-less
- Weight: 220g

MRA275R

2 x 2.5" SATA Raid HDD Enclosure



- Supports 2.5" SATA HDD (6.0Gbps) ; 7~9.5mm thickness
- RAID function: Raid0 / Raid1 / JBOD / NOR (No-Raid)
- Weight: 220g



MRA258 PCI

2.5" Internal HDD Enclosure



- Supports 2.5" HDD (6.0Gb/s) ; 7~9.5mm thickness
- Patent NSS connector applied
- Fits in PCI slot; design purpose is for HDD expansion
- Power and access LED indicator
- Half-opening design for easy heat dissipation
- Cooling holes on the tray helps heat dissipate faster
- Weight:148g

MRA258L PCI

2.5" Internal HDD Enclosure



- Lock design ensures data-safety
- Weight:148g

MRA258AL PCI

2.5" Internal HDD Enclosure



- Aluminum panel with high intensity of modern appearance
- Weight:160g

MRA258

2x2.5 " Internal Enclosure



- Supports 2x2.5" HDD (6.0Gb/s) ; 7~9.5mm thickness
- Patented NSS connector applied
- Power and access LED indicator
- Half-opening design for easy heat dissipation
- Cooling holes on the tray helps heat dissipate faster
- Weight:282g

MRA258L

2x2.5 " Internal Enclosure



- Lock design ensures data-safety
- Weight:286g

MRA258AL

2x2.5 " Internal Enclosure



- Aluminum alloy panel with high intensity of modern appearance
- Weight:304g

MRA261

2.5" Internal HDD Enclosure



- Supports 2.5" HDD (6.0Gb/s) ; 7~9.5mm thickness
- Patent NSS connector applied
- Power and access LED indicator
- Half-opening design for easy heat dissipation
- Cooling holes on the tray helps heat dissipate faster
- Weight:215g

MRA261L

2.5" Internal HDD Enclosure



- Lock design ensures data-safety
- Weight:236g

MRA261AL

2.5" Internal HDD Enclosure



- Aluminum alloy panel with high intensity of modern appearance
- Weight:236g

New Trayless design for 5~7mm SSD

- The wider spring reduce the movement of the thinner HDD and make sure the thinner HDD connected to the backplane firmly. So the enclosure can be used in stand up vertical without any problems.
- It can be applied in MRA258 series / MRA261 series / MRA258PCI series



MRA916

5.25" to 3.5" drive bay bracket



- For 3.5" HDD & 3.5" Floppy size enclosure
- Material: Aluminum or SPCC
- Weight : 105g / 231g

MRA261L PRO

2.5" Internal HDD Enclosure Anti-vibration proof

- Supports 2.5" HDD (6.0Gb/s) ;
7~9.5mm thickness
- Patented NSS connector applied
- Power and access LED indicator
- Three panels for selection : No Lock / Lock design / Aluminum Panel
- Half-opening and cooling holes on the tray dissipate heat faster
- Easy-ejecting tray mechanism
- Weight: 236g

**MRA281**

2.5" SATA / SAS Enclosure with Vibration Proof

- Supports 2.5" SATA/SAS HDD (6.0Gbps) ;
7~15mm thickness
- Tray design with All Metal Parts
- Aluminum Panel / Metal Housing
- Mechanical lock keeps HDD working securely
- With 4 bumpers supports 360 degree vibration proof
- Operating Temperature : -40~85°C
- Weight : 304g

**MRA266**

4x2.5" Internal Enclosure



- Supports 4x2.5" HDD (6.0Gb/s) ;
7~12.5mm thickness
- Patented NSS connector applied
- Power and access LED indicator
- Metal lock ensures data-safety
- Simple cable connecting method
- Weight: 674g

**MRA361**

2x 2.5" Internal HDD Enclosure

- Supports 2x 2.5" HDD (6.0Gb/s) ;
7~12.5mm thickness
- Patented NSS connector applied
- Accommodates 12.7mm slim ODD (ODD machine is not included)
- Weight: 565g



MRA358U3

2.5" Internal HDD Enclosure + USB3.0



- Supports 2.5" HDD (6.0Gb/s) ; 7~9.5mm thickness
- Patented NSS connector applied
- Accommodates 12.7mm slim ODD (ODD machine is not included)
- With two USB3.0 hubs
- Weight: 484g

MRA359

3.5" Internal HDD Enclosure



- Supports all SATA / SAS HDD (6.0Gb/s)
- Patented NSS connector applied
- Accommodates 12.7mm slim ODD(ODD Machine is not included)
- Anti-shock design; patented tool-free design
- Weight:310g

MRA750/MRA751

2.5" + 3.5" Internal Enclosure with 2x USB3.0 Hub



MRA750



MRA750U



MRA751P



MRA751PU

- 2.5" + 3.5 SATA /SSD / SAS (6.0Gbit/s)
- Patent NSS connector, lengthen HDD hot swap life cycle more than 50,000 times
- Equip a 19 pin USB3.0 standard cable
- Hub can be USB2.0 or USB3.0 or removed
- Individual LED indicator
- Different panels for selection
- Weight:482g

MRA201

3.5" Internal HDD Enclosure



- Supports all 3.5" SATA / SAS HDD
- Supports SATA III(6.0Gbit/s)
- Patented NSS connector; Supports HDD
- 50,000 Cycles of Hot Swaps
- Power and access LED indicator
- Metal lock
- Tool-Free & Tray-less
- Weight : 262g

MRA201F

3.5" Internal HDD Enclosure



- Additional two bottom 3x3cm fans for better heat-dissipation
- Weight: 324g

MRA201 SAS

3.5" Internal HDD Enclosure



- Supports 3.5" SATA / SAS HDD and function (6.0Gbit/s)
- Real SAS with two 7pin SATA out
- Rear 3x3cm fan for better heat dissipation
- Weight : 284g

MRA200 Pro

3.5" Internal HDD Enclosure



- Single LED indicator
- Weight: 246g

MRA200F

3.5" Internal Enclosure



- Hair line finish on front panel suitable for design in media player
- Weight:246g

MRA302

3.5" Internal Enclosure



- Aluminum outer case for better heat ventilation; also against shock and dustproof
- Built-in 3x3cm fan
- Weight 522g

MRA402

3x3.5" Internal HDD Enclosure

- 3 x 3.5" SATA / SAS HDD (6.0Gbit/s)
- Patent NSS connector, lengthen HDD
- hot swap life cycle more than 50,000 times
- Built-in two 4x4cm fan
- Weight:1044g



MRA400AL

3x3.5" Internal HDD Enclosure

- 3 x 3.5" SATA / SAS HDD (6.0Gbit/s)
- Aluminum front panel with lock
- Security hidden design prevents opening the door by mistake
- Built-in two 4x4cm fan
- Weight:1078g



MRA502

4x3.5" Internal HDD Enclosure

- 4 x 3.5" SATA / SAS HDD (6.0Gbit/s)
- Patent NSS connector, lengthen HDD
- hot swap life cycle more than 50,000 times
- Built-in two 4x4cm fan
- Weight:1582g



MRA500AL

4x3.5" Internal HDD Enclosure

- 4 x 3.5" SATA / SAS HDD (6.0Gbit/s)
- Aluminum front panel with lock
- Security hidden design prevents opening the door by mistake
- Built-in two 4x4cm fan
- Weight:1638g



MRA260

2.5" Adaptor into One 3.5" HDD size



- 1x2.5" SATA /SSD (6.0Gbit/s)
- Size is a standard HDD dimension, use in any storage environment
- Weight:140g

MRA260U

2.5" Adaptor into One 3.5" HDD size



- With USB 2.0 interface that works both internal and external
- Weight:143g

MRA260E

2.5" Adaptor into One 3.5" HDD size



- For 1x 2.5" HDD
- Fits 7mm / 9.5mm / 15mm HDD
- Simple / No signal loss
- Weight: 128g

MRA262

2 x 2.5" Raid Adaptor into One 3.5" HDD size



- 2 x 2.5" SATA HDD (6.0Gbps) ; 7~9.5mm thickness
- Patent NSS connector lengthen HDD hot swap cycle more than 50,000 times
- Aluminum top cover / SPCC lower cover / Plastic body
- RAID function: Raid0 / Raid1 / JBOD / NOR (No-Raid)
- Weight: 252g

MRA263

2.5" Adaptor into One 3.5" HDD size



- 1 x 2.5" SATA HDD (6.0Gbps) ; 7~12.5mm thickness
- Weight: 252g

MRA263U3

2.5" Adaptor into One 3.5" HDD size



- 1 x 2.5" SATA /SSD (6.0Gbit/s); 7~12.5mm thickness
- With USB 3.0 interface that works both internal and external
- Weight: 255g

2.5" SATA/SSD Module



- Supports all 2.5" SATA / SSD HDD (6.0Gbit/s)
- Patented NSS connector; Supports HDD 50,000 hot swaps duty cycles
- Toolfree & Trayless mechanical
- Stainless steel material
- For OEM projects



MRA258-1bay
Fits 7~9.5mm thickness drives



258L-1bay
Fits 7~9.5mm thickness drives



MRA273
Fits 7~12.5mm thickness
Plastic material



MRA261L-PRO
Fits 7~9.5mm thickness drives
Anti-shock proof version



MRA265
Fits 7~12.5mm thickness drives



MRA266
Fits 7~12.5mm thickness drives

3.5" SATA / SAS Module



- Supports all 3.5" SATA / SAS HDD (6.0Gbit/s)
- Patented NSS connector; Supports HDD 50,000 hot swaps duty cycles
- Toolfree & Trayless mechanical
- For OEM projects



MRA212



MRA304-1bay



MRA200F-1



MRA200F-2



MRA200F-3

MRA2505

- 5 x 2.5" External Enclosure
- RAID levels: 0 / 1 / 3 / 5 / 10 / JBOD / CLONE
- Supports 2.5" SATA HDD (3.0Gbps) ;
- 7~12.5mm thickness



MRA2505PM

- 5 x 2.5" External Enclosure
- Port Multiplier function
- Supports 2.5" SATA HDD (6.0Gbps) ;
- 7~12.5mm thickness



- Interface: USB 3.0 + eSATA
- Patent NSS connector lengthen HDD hot swap cycle more than 50,000 times
- Aluminum case and 6x6cm bottom fan enable high efficiency ventilation
- LED indicator (Power/Access/Error)
- Protection Key Lock design
- Intelligent temperature control and alarm setting
- Tool-Free & Tray-less

MRA603U3

- 3.5" External Enclosure
- Interface: USB 3.0



MRA603U3S

- 3.5" External Enclosure
- Interface: USB 3.0 + eSATA



- Interface: USB 3.0 + eSATA
- Supports 3.5" SATA/SAS HDD
- Patent NSS connector lengthen HDD hot swap cycle more than 50,000 times
- High quality aluminum case ensures high ventilation performance
- Air convection door frame design enables high efficiency ventilation
- LED indicator (Power/Access)
- Protection Key Lock design
- Tool-Free & Tray-less

NSS-SATA/SAS Connector



NSS CONN-SMT-90 degree



NSS CONN-SMT-180 degree



NSS CONN-Standard + Latch Hole

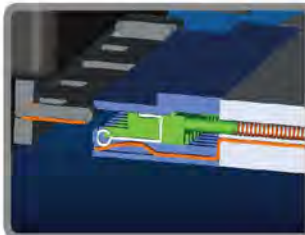


NSS CONN-Standard + Metal Latch Hole



NSS CONN-exploded view

NSS-CONNECTOR



Support SATA / SAS HDD

Guarantee to support HDD hot swap
life cycle more than 50,000 times