

# CHENBRO

## RM238 Series

2U Dual Sockets General Purpose  
Flexible Server/Storage Chassis

RM23812



RM23800



RM23804



RM23808



RM23824



RM23824 NF

2U Dual-Socket Server Chassis with Up to 24x PCIe SSD Delivers High I/O Performance and Ultra-low Latency to Meet Mission-Critical Demands

## NVMe



### Deliver Powerful I/O Performance

RM238 series has the ability to provide ultra-low latency and powerful I/O performance with the Chenbro designed NVMe backplanes that allow connectivity for up to 24-bay drives. The modular design of NVMe configurations facilitate enterprises to easily deal with their large, complex, business-critical workloads. At the same time, RM238 series supports an easy-swap 7 low profile or 3 full height PCIe brackets. As a result of the NVMe solution paired with the flexible storage cage, storage is no longer the bottleneck to the speedy data transfer.



### Discover Great Versatility

RM238 series, which takes great advantage of modularity from RM237 series, offers excellent versatility. Specifically, its modular storage cages, fan cages and PCI-e riser cage help customers to customize their business. And they benefit greatly from shorter production lead time and lower re-investment costs on molds. In addition, RM23824, which is built-in separated 2.5" 8-port and 16-port backplanes, give customers flexibility to combine hard drives with NVMe solutions in one enclosure. RM238 series, with its enhanced versatility, helps customers control its budget for the initial system investment.



### Offer Superb Thermal Performance

Equipped with three hot-swap fans and built in smart fan control on the backplane, RM238 series can handle the thermal requirement of the latest Intel<sup>®</sup> Purley platform. This feature widens the range of workload from common business tasks to high performance computing applications. By solving the overheating issue on the rear two storage drives, it provides customers with a highly reliable server system. Further, by increasing air intake volume with the addition of a fourth fan, concentrating airflow by using simple-designed air duct and smoother airflow by reducing PSU cables, the thermal management on the RM238 series performs superbly.

# Chassis Specifications

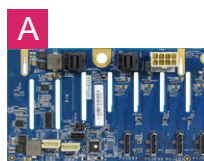
<b>MB Form Factor</b>	• SSI EEB (12" x 13")
<b>Dimension (D x W x H)</b>	• 658.6 x 438.0 x 87.0 (mm), 25.93" x 17.24" x 3.43"
<b>Drive Bay</b>	<ul style="list-style-type: none"> <li>• RM23800: 4 x 3.5" Internal (Dummy cover), 2 x Open Bay</li> <li>• RM23804: 4 x 3.5" Hot-swap, 2 x Open Bay</li> <li>• RM23808: 8 x 3.5" Hot-swap, 2 x 2.5" Internal, 1 x Slim ODD</li> </ul> <ul style="list-style-type: none"> <li>• RM23812: 12 x 3.5" Hot-swap</li> <li>• RM23824: 24 x 2.5" Hot-swap</li> <li>• Optional 2 x 2.5" Hot-swap (Rear)</li> </ul>
<b>PSU Form Factor</b>	• 1+1 CRPS (80+ Platinum) or 2U Single
<b>Indicator</b>	• 1 x Power Status, 2 x LAN Activity, 1 x UID, 1 x HDD Status, 1 x System Alarm
<b>Front Control</b>	• 1 x Power On/Off, 1 x System Reset, 1 x UID, 2 x USB3.0
<b>Cooling Fan</b>	• 80 x 25/38 mm (3, up to 4), Hot-swap/Non Hot-swap
<b>System Security</b>	• Intrusion Switch (Option)
<b>Expansion Slot Opening</b>	• 7 x Low Profile or 3 x Full Height
<b>Storage Backplane</b>	<ul style="list-style-type: none"> <li>• RM23800: N/A</li> <li>• RM23804: 3.5" 4-port 12Gbps, SATA/SAS</li> <li>• RM23808: 3.5" 8-port 12Gbps, Mini-SAS HD</li> <li>• RM23812: 3.5" 12-port 12Gbps, Mini-SAS HD, Passive or Active</li> <li>• RM23824: 2.5" 8-port 12Gbps, Mini-SAS HD</li> <li>• 2.5" 16-port 12Gbps, Mini-SAS HD, Expander</li> </ul> <ul style="list-style-type: none"> <li>• RM23824 NVMe: 2.5" 8-port 12Gbps, Mini-SAS HD, 4-port Tri-mode 2.5" 8-port PCIe Gen3, OCUlink</li> <li>• Option: 2.5" 2-port 12Gbps, SATA 7-pin or 2.5" 2-port PCIe Gen 3, OCUlink</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>• Operating: 10°C to 35°C (50°F to 95°F)</li> <li>• Non-operating: -40°C to 70°C (-40°F to 158°F)</li> </ul>
<b>Humidity</b>	• Non-operating: 50% to 90%
<b>Net Weight</b>	• 11.5 Kg
<b>Gross Weight</b>	• 14.0 Kg
<b>Cubic Feet</b>	• 3.3
<b>Container Info.*</b>	• 20': 200, 40': 460, 40'H: 506

\*Single Packing

## PCIe Gen3 NVMe Backplane Specifications

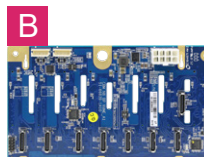
### 2.5" 8-port 12Gbps SAS/SATA Backplane with 4-port Tri-mode

<b>P/N</b>	• 380-23710-3011A1	<b>A</b>
<b>Dimension (W X H)</b>	• 142.0 x 80.0 (mm)	
<b>Backplane Type</b>	• Passive	
<b>Host Interface</b>	• 2 x SFF-8643 (Mini-SAS HD), 4 x OCUlink	
<b>HDD Interface</b>	• 8 x SFF-8639	
<b>SAS Expander</b>	• N/A	
<b>Features</b>	• Temperature Monitoring	



### 2.5" 8-port PCIe Gen3 NVMe Backplane

<b>P/N</b>	• 380-23710-3012A2	<b>B</b>
<b>Dimension (W X H)</b>	• 142.0 x 80.0 (mm)	
<b>Backplane Type</b>	• Passive	
<b>Host Interface</b>	• 8 x OCUlink	
<b>HDD Interface</b>	• 8 x SFF-8639	
<b>SAS Expander</b>	• N/A	
<b>Features</b>	• Temperature Monitoring	



### 2.5" 2-port PCIe Gen3 NVMe Backplane

<b>P/N</b>	• 380-23710-3010A1	<b>C</b>
<b>Dimension (W X H)</b>	• 77.0 x 34.0 (mm)	
<b>Backplane Type</b>	• Passive	
<b>Host Interface</b>	• 2 x OCUlink	
<b>HDD Interface</b>	• 2 x SFF-8639	
<b>SAS Expander</b>	• N/A	
<b>Features</b>	• Temperature Monitoring	



# 12Gbps SAS/SATA Backplane Specifications

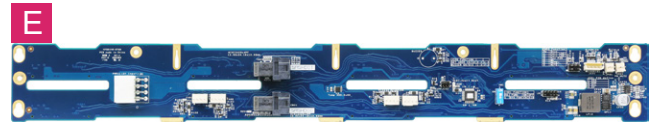
## 3.5" 8-port 12Gbps SAS/SATA Backplane

P/N	• 380-14610-30000A1	D
Dimension (W X H)	• 426 x 26.8 (mm)	
Backplane Type	• Passive	
Host Interface	• 4 x SFF-8643	
HDD Interface	• 8 x SFF-8680	
SAS Expander	• N/A	
Features	• LED Blinking Pattern	



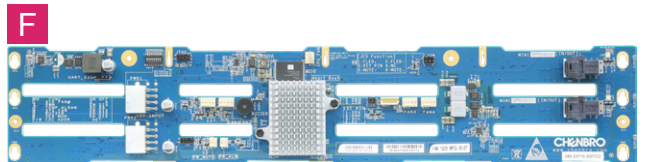
## 3.5" 8-port 12Gbps SAS/SATA Backplane

P/N	• 380-23810-3000A3	E
Dimension (W X H)	• 432.0 x 53.2 (mm)	
Backplane Type	• Passive	
Host Interface	• 2 x SFF-8643 (Mini-SAS HD)	
HDD Interface	• 8 x SFF-8680	
SAS Expander	• N/A	
Features	• Temperature Monitoring, Smart Fan Control	



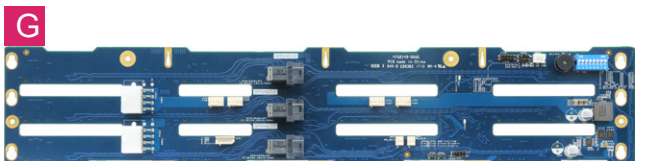
## 3.5" 12-port 12Gbps SAS/SATA Backplane, Active

P/N	• 380-23710-3001C4	F
Dimension (W X H)	• 432.0 x 81.0 (mm)	
Backplane Type	• Active (with Expander)	
Host Interface	• 2 x SFF-8643 (Mini-SAS HD)	
HDD Interface	• 12 x SFF-8680	
SAS Expander	• LSI SAS3 x 28R	
Features	• Temperature Monitoring, Smart Fan Control	



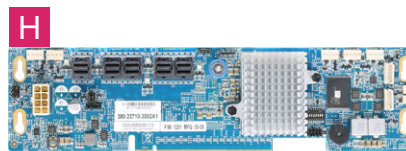
## 3.5" 12-port 12Gbps SAS/SATA Backplane, Passive

P/N	• 380-23710-3005C0	G
Dimension (W X H)	• 432.0 x 81.0 (mm)	
Backplane Type	• Passive	
Host Interface	• 3 x SFF-8643 (Mini-SAS HD)	
HDD Interface	• 12 x SFF-8680	
SAS Expander	• N/A	
Features	• Temperature Monitoring, Smart Fan Control	

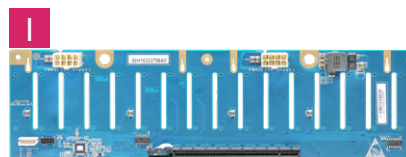


## 2.5" 24-port 12Gbps SAS/SATA Backplane

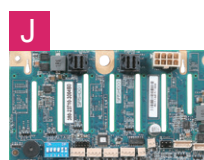
P/N	• 380-23710-3002A4 (SAS Expander Board)	<b>H</b>
Dimension (W X H)	• 250 x 67.8 (mm)	
Backplane Type	• Active (with Expander)	
Host Interface	• 3 x SFF-8643 (Mini-SAS HD)	
HDD Interface	• Docked to 16-port SAS B/P, 2 x SFF-8643 to 8-port SAS B/P	
SAS Expander	• LSI SAS3 x 36R	
Features	• Temperature Monitoring, Smart Fan Control	



P/N	• 380-23710-3000A1 (16-port SAS/SATA Backplane)	<b>I</b>
Dimension (W X H)	• 286 x 80 (mm)	
Backplane Type	• Passive	
Host Interface	• Docked to 12Gbps SAS Expander Board	
HDD Interface	• 16 x SFF-8680	
SAS Expander	• N/A	
Features	• Temperature Monitoring	



P/N	• 380-23710-3004B0 (8-port SAS/SATA Backplane)	<b>J</b>
Dimension (W X H)	• 142 x 80 (mm)	
Backplane Type	• Passive	
Host Interface	• 2 x SFF-8643 (Mini-SAS HD)	
HDD Interface	• 8 x SFF-8680	
SAS Expander	• N/A	
Features	• Temperature Monitoring, Smart Fan Control	



## 2-port 12Gbps SAS/SATA Backplane

P/N	• 80H10323703A1	<b>K</b>
Dimension (W X H)	• 77.0 x 38.7 (mm)	
Backplane Type	• Passive	
Host Interface	• 2 x SATA 7-pin	
HDD Interface	• 2 x SFF-8680	
SAS Expander	• N/A	
Features	• Temperature Monitoring	



## Chenbro

Founded in 1983, Chenbro (TWSE: 8210) has been the trailblazer in designing and manufacturing of own-brand rackmount system, tower server and PC chassis for over 37 years. Chenbro is not only qualified by the first-tier server brands and provides OEM, ODM and JDM services with EMS companies, but also successfully extends its business footprint to datacenters and industrial solutions by continuously investing in technologies and delivers the most trusted server and PC chassis with the highest standard of innovation. For more information about Chenbro, please visit <http://www.chenbro.com>

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