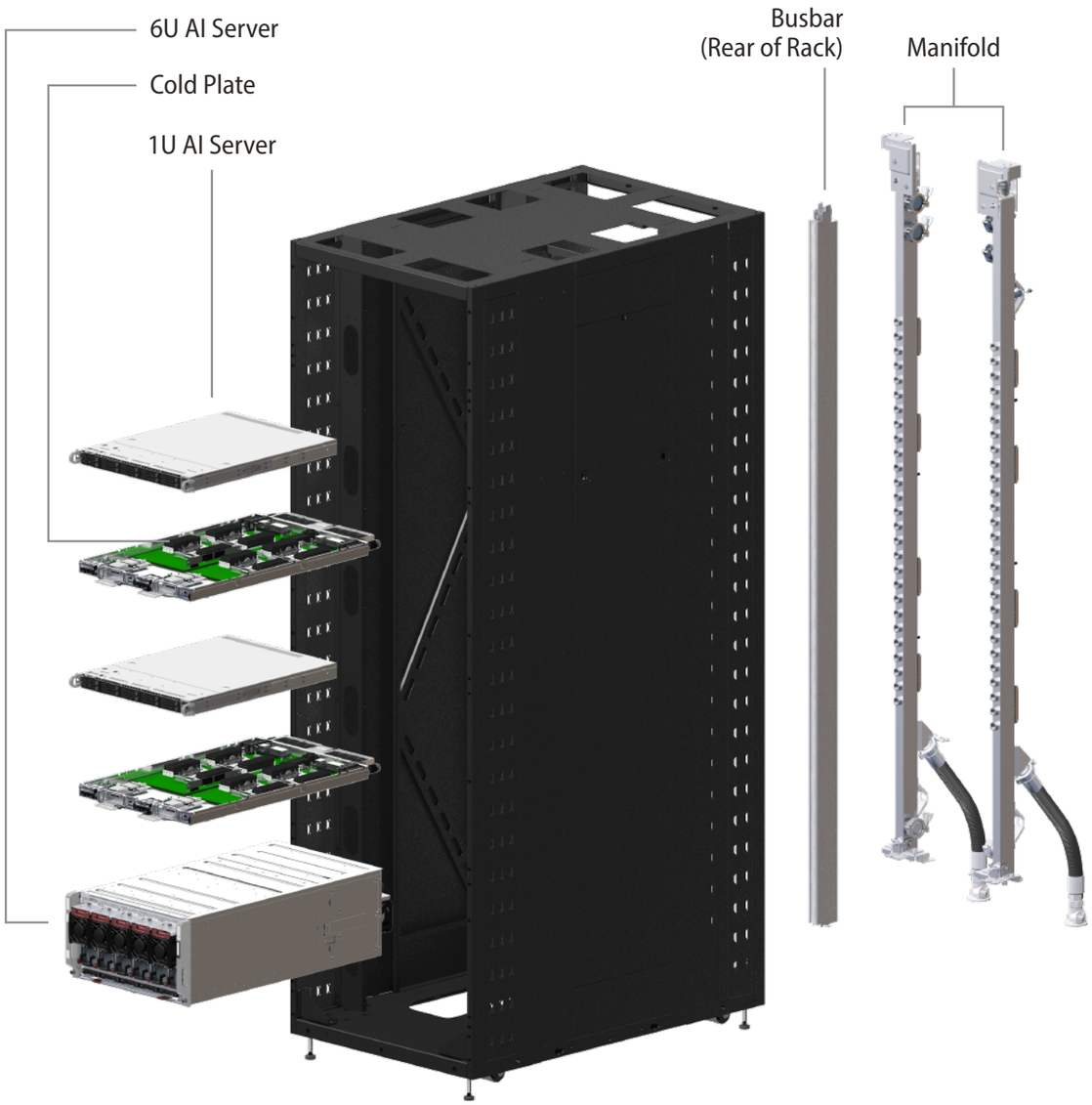
ABLECOM



ABLERACK

Ablecom Rack Integration Solutions



Multi-Standard Power Busbar

Designed to support power densities from 80kW to over 140kW. Our modular busbar system is compatible with V3 power shelf standards but remains adaptable for custom power distribution needs, preventing vendor lock-in.

Universal Blind-Mate Fluid Interface

The rear chassis is "Manifold-Ready," featuring adjustable mounting points for Direct-to-Chip (D2C) cooling systems. It is optimized for the high-flow requirements of 72-GPU configurations while remaining compatible with future cooling iterations.

High-Radix Interconnect Cable Management

Specially designed lateral cable galleries accommodate the massive scale of NVLink-class copper cabling. Our "Zero-Bend-Radius" routing ensures signal integrity for 1.8TB/s+ interconnects while maintaining easy access for maintenance.

The Art of AI Infrastructure : Beyond the Standard

AI hardware demands more than just a box; it requires a high-performance environment. With 30 years of deep-rooted expertise in mechanical engineering, we provide the structural integrity and thermal precision necessary for the most dense AI accelerator deployments.



30% Energy Saving
Drastically reduces cooling infrastructurepower consumption.

10~80kW Thermal Capacity
Built for high-density AI and HPC rack deployments.

1.06 Target PUE
Industry-leading efficiency for sustainable data centers.

Non-Invasive Modular Design
Fast retrofitting on existing racks; no internal server loops required.



AbleCool™

High-Reliability Design
Redundant, hot-swappable pumps ensure continuous, mission-critical cooling.

Precision Distribution
Optimized manifold design for balanced coolant flow across high-density GPU racks.

Intelligent Monitoring
Real-time leak detection and automated flow control for maximum system safety.

Seamless Scalability
Tool-less installation; fully compatible with ORv3 and modular cooling loops.



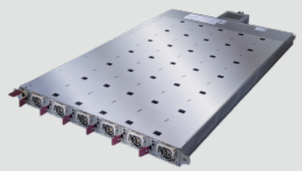
CDM

Ultra-High Density
1U chassis supporting up to six 5.5kW hot-swappable rectifiers.

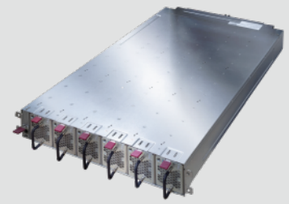
Peak Power Mastery
180% EDPP support ($500\mu s$) to handle intense AI processor spikes.

Smart Telemetry
Integrated PMC and ASPEED 2620 BMC for real-time monitoring & predictive maintenance.

Scalable Parallelism
Supports multi-shelf communication for up to 8 power and BBU shelves.



Power Shelf



BBU Shelf

33kW Rated Backup
Supports 90-second discharge; 5+1 redundant, hot-swappable modules.

Superior Peak Support
Engineered for high-intensity spikes: up to 160% load (400 μ s).

Instant AC Transition
Seamless backup on AC loss with ultra-fast 2ms transition.

Shelf-to-Shelf Sync
Synchronized AC-loss detection across Power Shelves and BBU modules.

Smart Management
Integrated PMC with MODBUS / CANBUS for realtime



CDU In-rack

Massive Capacity
Up to 250kW (In-Rack) / 2MW (In-Row) to handle extreme AI workloads.

Peak Efficiency
1.002 mPUE with 98% heat removal;optimized for sustainable data centers.

Mission-Critical Reliability
1+1 redundant, hot swappable pumps & PSUs for zero-downtime maintenance.

Smart Integration
Touch-panel control with Redfish/SNMP support; ORv3 & MGX compliant.



Busbar

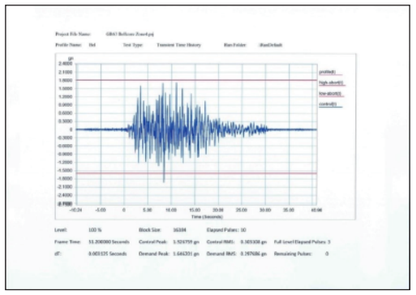
Max Power Efficiency
48V/1400A high-current support,engineered for power-hungry GPU clusters.

Full ORv3 Compliance
Standardized for Open Rack V3,ensuring seamless next-gen hardware integration.

Cableless & Tool-less
Blind-mate design eliminates cable clutter for peak airflow and rapid deployment.

Flexible Modular Design
Streamlined connection across Power Shelves and BBU modules.

Feature



Seismic Resilience

Engineered to survive Magnitude 8.3 seismic events (GR-63-CORE Zone 4), we provide the ultimate physical insurance for your high-value AI assets.

Benefit

our chassis guarantees business continuity by maintaining zero-deflection structural integrity even under extreme dynamic loads.



Certified Transportability

- Engineered for safe global deployment through rigorous ASTM D4169 testing.
- High-intensity testing up to 0.7Grms.
- Passed Rotational Drop (6-inch) and Incline/Side Impact tests.
- Passed 17-degree Tilt test for operational safety.

Benefit

Ensures that massive-scale clusters maintain micron-level interconnect precision even after long-haul logistics.



±0.2mm precision Tolerance

Idustry-leading ±0.2mm tolerance control ensures extreme mechanical precision for all structural components.

Benefit

It prevents signal degradation and physical stress on connectors caused by micro-deflections in the chassis, safeguarding the stability of trillion-parameter data exchanges.



Designed and Manufactured in Taiwan

30 years of proven expertise in mechanical design and manufacturing for Tier 1 clients.

Benefit

Made in Taiwan (MIT) represents superior craftsmanship and stable lead times while effectively mitigating geopolitical risks.

Ablecom Integrated Rack scale solution

MGX Modular AI Racks

NVIDIA MGX Modular Architecture for AI / HPC

Models Included :

- MGX V1.2 600W (42RU / 48RU)
- MGX V1.2 750W (42RU / 52RU)
- MGX V1.1 600W (52U / 48U)

Specifications:

Width	600mm / 750mm / 762mm
Height	42RU / 48RU / 52RU
Use Case	AI Server Clusters, High-Density




OCP Open Architecture

Open Compute Project 21" Hyperscale Standard

Models Included :

- OCP 21" 750W 44OU STD 1200DMGX V1.2 750W
- OCP 21" 750W 44OU ODM 1200DMGX V1.1 600W
- OCP 21" 48"-OU
- Helios ORW rack

Specifications:

Width	600mm / 750mm / 762mm
Height	42RU / 48RU / 52RU
Use Case	AI Server Clusters, High-Density




EIA Standard Racks

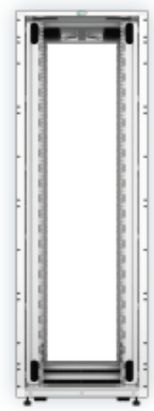
EIA-310 19" Legacy Enterprise Standard

Models Included :

- EIA 52U RACK Series
- EIA 800W 42RU 1400D

Specifications:

Width	600mm / 750mm / 762mm
Height	42RU / 48RU / 52RU
Use Case	AI Server Clusters, High-Density

Specifications

Model	MGX1.1 Rack Series		
Series No	ARK-48MGSM-7612114-B1 ARK-48MGSM-7612114-W1	ARK-52MGSM-7612114-B1 ARK-52MGSM-7612114-W1	ARK-52MGSM-6012114-B1
Height	48U (2288mm)	52U (2450mm)	52U (2450mm)
Dimension (Width)	762mm (30")	762mm (30")	600mm(23.62")
Dimension (Depth)	1200 mm (48")	1200 mm (48")	1200 mm (48")
Weight (kg)	370kg(816 lb)	390kg(860 lb)	370kg(816 lb)
Static Load Capacity	2500kg(5512 lb)	2500kg(5512 lb)	2500kg(5512 lb)
IP Grade	IP20IP20	IP20	IP20
Static Load Capacity	Per Suggested NVIDIA Configuration	Per Suggested NVIDIA Configuration	Per Suggested NVIDIA Configuration
Busbars	Included	Included	Included

Model	MGX1.2 Rack Series		
Series No	ARK-42MGSM-6012050-B1 ARK-42MGSM-6012050-W1	ARK-48MGSM-6012050-B1 ARK-48MGSM-6012050-W1	ARK-52MGSM-6012050-B1
Height	42U (2021mm)	48U (2288mm)	52U(2450mm)
Dimension (Width)	600mm (23.62")	600mm (23.62")	600mm(23.62")
Dimension (Depth)	1200 mm (48")	1200 mm (48")	1200 mm (48")
Weight (kg)	320kg (705.5 lb)	350kg (772 lb)	370kg (816 lb)
Static Load Capacity	2500kg(5512 lb)	2500kg(5512 lb)	2500kg(5512 lb)
IP Grade	IP20	IP20	IP20
Static Load Capacity	Per Suggested NVIDIA Configuration	Per Suggested NVIDIA Configuration	Per Suggested NVIDIA Configuration
Busbars	Included	Included	Included

Model	MGX1.2 Rack Series	
Series No	ARK-48MGSM-7512050-B1 ARK-48MGSM-7512050-W1	ARK-48MGSM-6012050-B1 ARK-48MGSM-6012050-W1
Height	48U (2288mm)	52U (2450mm)
Dimension (Width)	750mm (29.5")	750mm(29.5")
Dimension (Depth)	1200 mm (48")	1200 mm (48")
Weight (kg)	370kg (816 lb)	398kg(877 lb)
Static Load Capacity	2500kg (5512 lb)	2500kg(5512 lb)
IP Grade	IP20	IP20
Static Load Capacity	Per Suggested NVIDIA Configuration	Per Suggested NVIDIA Configuration
Busbars	Included	Included

Model	OCP ORV3 21" Rack	
Series No	ARK-44OESM-7512014-B1 ARK-44OESM-7512014-W1	ARK-48OESM-7512014-B1 ARK-48OESM-7512014-W1
Height	44OU (2291mm)	48OU (2483mm)
Dimension (Width)	750mm (29.5")	750mm(29.5")
Dimension (Depth)	1200 mm (48")	1200 mm (48")
Weight (kg)	243kg(536 lb)	291kg(642 lb)
Static Load Capacity	2268kg(5000 lb)	2268kg(5000 lb)
IP Grade	IP20	IP20
Busbars	Option	Option

Model	EIA 19" Rack Series		
Series No	ARK-42SESM-80140-B1 ARK-42SESM-80140-W1	ARK-48SESM-75120-B1 ARK-48SESM-75120-W1	ARK-52SESM-75120-B1 ARK-52SESM-75120-W1
Height	42U (2050mm)	48U (2317mm)	52U (2494mm)
Dimension (Width)	800mm (31.5")	750mm (29.5")	750mm(29.5")
Dimension (Depth)	1400 mm (55.1")	1200 mm (48")	1200 mm (48")
Weight (kg)	300kg (661 lb)	300kg (661 lb)	330kg (728 lb)
Static Load Capacity	2268kg (5000 lb)	2268kg (5000 lb)	2268kg(5000 lb)
IP Grade	IP20IP20	IP20	IP20

ABLECOM



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