

OSFP-RHS 224G Cold Plate & Cage Assembly

I/O LIQUID COOLING/COLD PLATE

Amphenol's innovative single-component design leverages engineering expertise to optimize port thermal efficiency and reliability, meeting MSA requirements and providing a seamless one-step press assembly for our customers. The OSFP 1×N and 2×N RHS cage, featuring integrated top and bottom row cold plates with a belly-to-belly compatible screw-down mechanism, provides a simple and reliable installation method. Showcasing two cold plates managing heat efficiently across 16 ports connected in series on a ganged stacked cage.

- High power module thermal dissipation
- One step cage and cold plate press assembly
- One inlet/outlet minimizing system routing complexity and connections
- Independent spring-loaded module contact per port
- Compliant with OSFP, MSA and RoHS



TARGET MARKETS



FEATURES

- Cooling > 40 W per module
- Reliable, consistent thermal performance in hot-pluggable applications
- Single inlet/outlet design
- Independent spring-loaded module contact per port
- Compliant with OSFP MSA and RoHS standards
- One-step cage and cold plate press assembly
- Hermetically sealed cold plates available from multiple qualified vendor sources
- Fluid pressure does not impact insertion/extraction force

BENEFITS

- Efficient thermal management ensures stable module operation
- Maintains performance and reliability during hot-plug events
- Simplifies system design by reducing routing complexity and connections
- Improves contact stability and reliability for each port
- Ensures industry compliance and regulatory adherence
- Streamlined assembly reduces manufacturing time and cost
- Vendor flexibility supports supply chain resilience and cost optimization
- Easy insertion and extraction without added mechanical stress

TECHNICAL INFORMATION

MECHANICAL PERFORMANCE

- OSFP MSA
- Maximum active liquid pressure: 75 PSI
- Burst Pressure: > 230 PSI

ENVIRONMENTAL

- Cooling > 40 W per module
- EIA-364-1000 compliant
- Operating / Storage Temperature Range: –40 °C to +85 °C
- RoHS, REACH, and Halogen-free compliant

SPECIFICATIONS

- EIA-364-1000
- Cage mounting: Through bezel
- EMI options: Spring fingers
- Configurations:
 - 1×N (N = 4,8)
 - 2×N (N = 4.8)

PACKAGING

- Tray (cage and cold plate)

TOOLING INFORMATION

- Hard Tooling

TARGET MARKETS/APPLICATIONS



Switch
Router and Server
High-density Ethernet Switching/Routing Products
Datacom/Networking Equipment



AI, ML, Data Center
Data center Switching Applications
Supercomputer

PART NUMBERS

Description	Part Numbers
OSFP 1x8 Liquid Cooling Solution	V62-ABZ01-XXXXXXX (X represents various options)
OSFP 2x8 Liquid Cooling Solution	V62-BBZ08-XXXXXXX (X represents various options)

Find part number details using the search box on www.amphenol-cs.com

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