Liquid Immersion RDIMMs for Data Centers
Reliable, Trusted, Proven
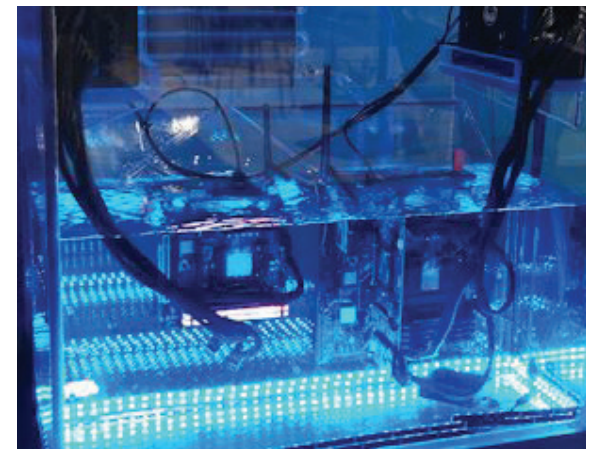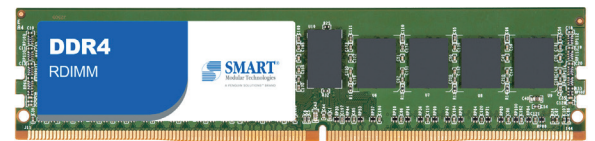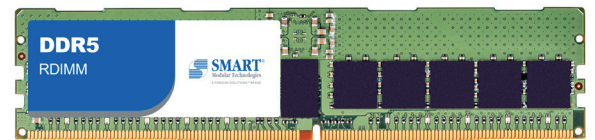
Why Liquid Immersion Servers?

- Power and heat, two of the biggest issues affecting data centers today
- Liquid cooling reduces power consumption by eliminating fans. Liquid cooling reduces space and removes overhead for cooling infrastructure

Problems with using standard RDIMMs in Liquid Immersion Servers

- Potential failures caused by corrosion due to changes in physical and chemical properties of the PCB and electrical components
- Fading component markings – unable to identify components
- Module label degrades – unable to track modules

Solutions

- Conformal coating - thin polymeric film which conforms to a printed circuit board to protect the board's components
- Typically applied at 25-250µm thickness, it is applied to electronic circuitry to protect against liquid, moisture, dust, and other corrosive chemicals such as sulfur dioxide
- SMART uses in-house, leading-edge equipment with a fully automated spray for applying conformal coating
- SMART uses high quality acrylic, polyurethane, silicone, epoxy coating material
- Designed to be highly reliable for use in Liquid Immersion Servers

Server boards being immersion cooled

Applications

- Liquid Immersion Servers used in data centers

DDR5 Liquid Immersion RDIMM Ordering Information

288-PIN - DDR5 RDIMM							
SMART Part Number	Density	Height (mm)	Module Config.	Device Type	Speed	Voltage	Temperature
SRLBG8RD544H-SB	256GB	31.25	32Gb x80	16Gx4	5600MT/s	1.1V	0°C to +70°C
SRLAG8RD5846-SB	128GB	31.25	16Gb x80	4Gx4	4800MT/s	1.1V	0°C to +70°C
SRLHG8RD5648-SP	96GB	31.25	12Gb x80	6Gx4	5600MT/s	1.1V	0°C to +70°C
SRL8G8RD5448-SP	32GB	31.25	4Gb x80	4Gx4	5600MT/s	1.1V	0°C to +70°C
SRL4G8RD5248-SP	32GB	31.25	4Gb x80	4Gx4	5600MT/s	1.1V	0°C to +70°C
SRL4G8RD5288-SP	32GB	31.25	4Gb x80	2Gx8	5600MT/s	1.1V	0°C to +70°C

* Reflects Operating Ambient Temperature

SMART
Modular Technologies
A PENGUIN SOLUTIONS® BRAND

For more information, please visit: **www.smartm.com**

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Headquarters/North America:
T: (+1) 800-956-7627 • T: (+1) 510-623-1231
F: (+1) 510-623-1434 • E: info@smartm.com

Latin America:
T: (+55) 11 4417-7200 • E: sales.br@smartm.com

Asia/Pacific:
T: (+65) 6678-7670 • E: sales.asia@smartm.com

EMEA:
T: (+44) 0 7826-064-745 • E: sales.euro@smartm.com

Customer Service:
T: (+1) 510-623-1231 • E: customers@smartm.com