

Industrial DRAM Solutions

Índex

What Sets Apacer Apart?
Solutions for Extreme Environments
Technologies and Advantages
Apacer's DRAM Module Series

Embedded

Server/Workstation

Very Low Profile

Mini DIMM

Wide Temperature

Specialty

About Apacer

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What Sets Apacer Apart?

Professional Technique

- Strong HW/FW engineering know-how
- Customized design with a variety of solutions
- State-of-the-art technology

Quality Assurance

• 100% reliable & compliant

Wide temperature test
Thermal shock test
Strict ORT (Ongoing Reliability Test)
Power cycle test
Humidity test
Altitude test
Reliability test (Vibration/Shock)

Extensive Experience

- Tier 1 industrial SSD & memory supplier; delivered over 340 million units
- Comprehensive experience in product customization (across industries)

TARRACONSISTENTA PRIMILED

INDUSTRIAL SSD SUPPLIER
GARTNER

Reliable Service

- Fixed BOM solution
- Longevity of supply, EOL & LTB notice
- Manufacturing in Taiwan protects IP

Trustworthy Supplier

- A global-scale service and maintenance system
- Responsive local FAE technical support
- 24/7 flexible and quick delivery service
- Complete RMA system



Solutions for Extreme Environments

Nowadays, as industrial memory products have been widely used in various kinds of applications, the need for memory modules that can maintain highly stable operating performance in harsh conditions is remarkably increasing.

As an industrial solution veteran and leading memory brand, Apacer always takes an outside-in perspective and strives for new breakthroughs, providing many value-added solutions and technologies for extreme environments to ensure product reliability, stability and durability.

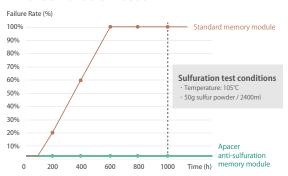
Technologies and Advantages



Apacer's patented anti-sulfuration memory modules replace standard silver electrodes with an exclusive alloy which has passed the ASTM B809-95 anti-sulfuration test.

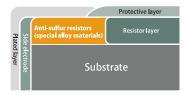
- World's first anti-sulfuration memory modules
- Solve corrosion problems effectively and increase overall system lifespan

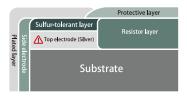
Anti-sulfuration test



Anti-sulfuration technology comparison

Apacer's advanced anti-sulfuration technology Method Adopts exclusive and improved alloy materials replace normal electrode Advantages / Disadvantages Apacer's advanced anti-sulfuration technology Covers an sulfur-tolerant layer to protect the electrode Unstable anti-sulfuration performance, improved product reliability and durability due to process failure





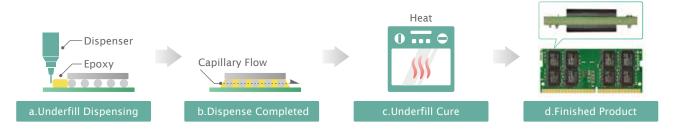


Underfill

Apacer provides underfill technology to increase product reliability and resistance to various thermal and mechanical shocks, ensuring that products continue to operate normally in high vibration and under extreme changes in environmental temperature.



- Strengthens the solder joints between solder balls and printed circuit board
- Increases the product's resistance against shock and vibration
- Reduces thermal stress damage
- Complies with MIL-STD-810G shock and vibration requirements
- Increases product reliability and lifespan

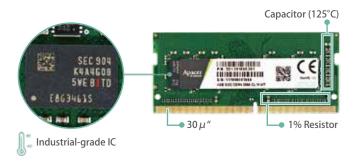


Wide Temperature Wide Temperature

Especially designed for harsh climates and special environmental conditions.

- Operating temperature range: -40 °C ≤ TC ≤ 85°C
- All industrial-grade components (DRAM, PCB, resistors and capacitors) ensure stability and reliability
- High/Low temp. test / Temp. cycling test
- Power cycling test

Insists on using industrial-grade DRAM ICs



Apacer's strengths of wide temperature memory

Apacer industrial-grade wide temp. memory		Standard memory (Commercial)
Industrial-grade (-40 ~ +85°C) Suitable for extreme high and low temperature environment	■ DRAM	Commercial-grade (0 ~ +85°C)
30 μ" Avoids gold finger oxidation and ensures the stability of signal transmission	■ PCB plating thickness ▶	3 µ "
Up to +125°C Ensures more stable voltage supply in high-temperature environment	Capacitor temp. specification	+85°C
± 1% tolerance Increases circuit stability and durability	■ Resistor specification ▶	± 5% tolerance





30μ Gold Finger

With the 30μ gold plating, the connector interface is more reliable and can withstand the potential damages in industrial applications.



Conformal Coating

Enhances reliability of products by applying coatings on the surface of printed circuit boards. The protective film can safeguard devices from dust ingression and liquid immersion.

- Uses automated spraying to maintain precise coating thickness
- Enhances product reliability
- Prolongs DRAM modules' lifespan



Apacer DRAM module with conformal coating

32 Bit 32-Bit SODIMM

Mainly supports the ARM architecture. Unlike the 64-bit memory module that supports x86 system, the unique 32-bit SODIMM provides the 32-bit ARM architecture with another design option besides onboard memory.





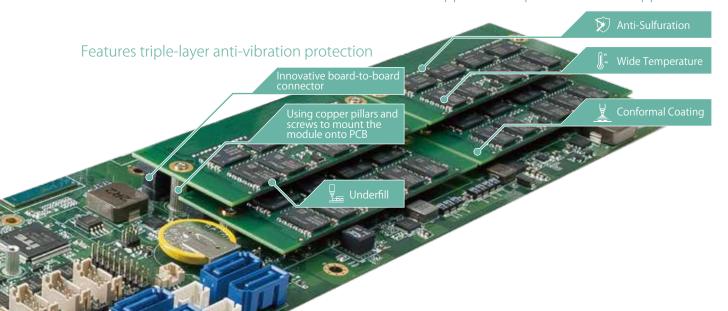
Extremely Rugged XR-DIMM

- Innovative board-to-board connector design
- Adopts highly durable 300-pin connector and mounting holes to improve the anti-vibration and anti-shock reliability
- Dual anti-shock and vibration certification: RTCA DO-160G / MIL-STD-810G
- Supports multiple protection technologies and value-added applications

Rugged Memory Comparison

	XR-DIMM Rugged Memory	Onboard memory
Anti-shock & anti-vibration ability	Great	Great
Memory upgradability	Yes	No
Repair difficulty	Easy	Difficult
RMA cost	Low	High
Stackable design	Yes	No
Motherboard space usage	Flexible	Uniform and inflexible

Supports multiple value-added applications



Embedded

UDIMM (Unbuffered DIMM)

- · JEDEC-compliant design
- $\cdot \ \mathsf{Applicable} \ \mathsf{for} \ \mathsf{desktop} \ \mathsf{computers}, \mathsf{industrial} \ \mathsf{computers} \ \mathsf{and} \ \mathsf{embedded} \ \mathsf{systems}$

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Model	DDR4 UDIMM	DDR3 UDIMM	DDR2 UDIMM	DDR UDIMM
Module Type	UDIMM	UDIMM	UDIMM	UDIMM
Memory Technology	DDR4	DDR3	DDR2	DDR
Frequency	2133/2400/2666/2933/3200	1066/1333/1600/1866	533/667/800	266/333/400
Density	2G/4G/8G/16G/32G	1G/2G/4G/8G/16G	1G/2G/4G	512M/1G
Voltage	1.2v	1.5v/1.35v	1.8v	2.5v/2.6v
Pin Count	288-Pin	240-Pin	240-Pin	184-Pin
Width	64-Bit	64-Bit	64-Bit	64-Bit
PCB Height	1.23"	1.18"	1.18"	1.25"
Operation Temperature	TC=0°C to 85°C	TC=0°C to 85°C	TC=0°C to 85°C	TA=0°C to 70°C
Application		Gaming / Healthcare / Id	T / Factory Automation	
Value-Added	Underfill Conting	Underfill Contirmel	Underfill Conformat	Conformal Coating

SODIMM (Small Outline DIMM)

- · JEDEC-compliant design
- Applicable for space-constraint systems, such as notebook computers, small-size industrial computers and embedded systems









Model	DDR4 SODIMM	DDR3 SODIMM	DDR2 SODIMM	DDR SODIMM
Module Type	SODIMM	SODIMM	SODIMM	SODIMM
Memory Technology	DDR4	DDR3	DDR2	DDR
Frequency	2133/2400/2666/2933/3200	1066/1333/1600/1866	533/667/800	266/333/400
Density	2G/4G/8G/16G/32G	1G/2G/4G/8G/16G	1G/2G/4G	256M/512M/1G
Voltage	1.2v	1.5v/1.35v	1.8v	2.5v/2.6v
Pin Count	260-Pin	204-Pin	200-Pin	200-Pin
Width	64-Bit	64-Bit	64-Bit	64-Bit
PCB Height	1.18"	1.18"	1.18"	1.25"
Operation Temperature	TC=0°C to 85°C	TC=0°C to 85°C	TC=0°C to 85°C	TA=0°C to 70°C
Application		Gaming / IoT / Transportat	ion / Factory Automation	

















Server/Workstation

RDIMM (ECC Registered DIMM)

- · Includes a register to enhance clock, command and control signals
- Supports ECC error detection and correction
- Supports a built-in temperature-monitoring thermal sensor
- · Applicable for enterprise servers and cloud data centers





Model	DDR4 RDIMM	DDR3 RDIMM
Module Type	RDIMM	RDIMM
Memory Technology	DDR4	DDR3
Frequency	2133/2400/2666/2933/3200	1066/1333/1600/1866
Density	4G/8G/16G/32G/64G	1G/2G/4G/8G/16G
Voltage	1.2v	1.5v/1.35v
Pin Count	288-Pin	240-Pin
Width	72-Bit 72-Bit	
PCB Height	1.23" 1.18"	
Operation Temperature	TC=0°C to 85°C TC=0°C to 85°C	
Application	Healthcare / Serv	er & Networking

Value-Added

















LRDIMM (Load Reduced DIMM)

- · Includes a register to enhance clock, command and control signals
- · Enhanced data signal with placing data buffer
- Supports ECC error detection and correction
- · Supports a built-in temperature-monitoring thermal sensor
- · Applicable for enterprise servers and cloud data centers



Model	DDR4 LRDIMM	
Module Type	LRDIMM	
Memory Technology	DDR4	
Frequency	2666/2933/3200	
Density	64G/128G	
Voltage	1.2v	
Pin Count	288-Pin	
Width	72-Bit	
PCB Height	1.23"	
Operation Temperature	TC=0°C to 85°C	
Application	Healthcare / Server & Networking	









Server/Workstation

ECC UDIMM (ECC Unbuffered DIMM)

- · Supports ECC error detection and correction
- · Supports a built-in temperature-monitoring thermal sensor
- · Applicable for servers and workstations that require highly stable operation

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Model	DDR4 ECC UDIMM	DDR3 ECC UDIMM	DDR2 ECC UDIMM
Module Type	ECC UDIMM	ECC UDIMM	ECC UDIMM
Memory Technology	DDR4	DDR3	DDR2
Frequency	2133/2400/2666/2933/3200	1066/1333/1600/1866	533/667/800
Density	4G/8G/16G/32G	1G/2G/4G/8G/16G	1G/2G/4G
Voltage	1.2v	1.5v/1.35v	1.8v
Pin Count	288-Pin	240-Pin	240-Pin
Width	72-Bit	72-Bit	72-Bit
PCB Height	1.23"	1.18"	1.18"
Operation Temperature	TC=0°C to 85°C	TC=0°C to 85°C	TC=0°C to 85°C
Application	Healthcare / IoT / Server & Netwoking / Factory Automation		
Value-Added	Thermal Sensor Cost Finger Underfill Costing	Thermal Sersor Cost Finger Underfill Costing	30µ Gold Finger Underfill Cooling

ECC SODIMM (ECC Small Outline DIMM)

- · Supports ECC error detection and correction
- · Supports a built-in temperature-monitoring thermal sensor
- · Applicable for microservers, workstations, networking platforms and embedded systems





Model	DDR4 ECC SODIMM	DDR3 ECC SODIMM
Module Type	ECC SODIMM	ECC SODIMM
Memory Technology	DDR4	DDR3
Frequency	2133/2400/2666/2933/3200	1066/1333/1600/1866
Density	4G/8G/16G/32G	1G/2G/4G/8G/16G
Voltage	1.2v	1.5v/1.35v
Pin Count	260-Pin	204-Pin
Width	72-Bit	72-Bit
PCB Height	1.18"	1.18"
Operation Temperature	TC=0°C to 85°C	TC=0°C to 85°C
Application	IoT / Server & Networking / Trans	portation / Factory Automation













Very Low Profile

VLP UDIMM (Very Low Profile Unbuffered DIMM)

- · Measures only 0.72~0.738-inch in height
- · Prevents mechanical issues, and improves heat dissipation
- · Applicable for space-constrained systems, such as small-size industrial computers and embedded systems

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Model	DDR4 VLP UDIMM	DDR3 VLP UDIMM	DDR2 VLP UDIMM
Module Type	VLP UDIMM	VLP UDIMM	VLP UDIMM
Memory Technology	DDR4	DDR3	DDR2
Frequency	2133/2400/2666/2933/3200	1066/1333/1600	533/667/800
Density	4G/8G/16G/32G	1G/2G/4G/8G	1G/2G/4G
Voltage	1.2v	1.5v/1.35v	1.8v
Pin Count	288-Pin	240-Pin	240-Pin
Width	64-Bit	64-Bit	64-Bit
PCB Height	0.738"	0.738"	0.72"
Operation Temperature	TC=0°C to 85°C	TC=0°C to 85°C	TC=0°C to 85°C
Application	IoT / Server & Networking		
Value-Added	Underfill Contornal	Underfill Coatemal Coaten	Underfill Costing

VLP SODIMM (Very Low Profile SODIMM) / VLP ECC SODIMM (Very Low Profile ECC SODIMM)

- · Measures only 0.7~0.709-inch in height
- · Saves up to 40% board space
- $\cdot \ \text{Applicable for space-constrained systems, such as small form-factor industrial computers and embedded systems}$



Very Low Profile

VLP RDIMM (Very Low Profile Registered DIMM)

- · Measures only 0.738-inch in height
- Prevents mechanical issues, and improves heat dissipation
- · Supports ECC error detection and correction
- · Supports a built-in temperature-monitoring thermal sensor
- Applicable for space-constrained systems and systems that require high stability, such as blade servers, 1U rack servers and various embedded systems.

Model	DDR4 VLP RDIMM	DDR3 VLP RDIMM
Module Type	VLP RDIMM	VLP RDIMM
Memory Technology	DDR4	DDR3
Frequency	2133/2400/2666/2933/3200	1066/1333/1600
Density	4G/8G/16G/32G	1G/2G/4G/8G
Voltage	1.2v 1.5v/1.35v	
Pin Count	288-Pin 240-Pin	
Width	72-Bit	72-Bit
PCB Height	0.738" 0.738"	
Operation Temperature	TC=0°C to 85°C	
Application	Healthcare / Server & Networking	
Value-Added	Thermal Gold Free:	Thermal God Finger I Indiceful Comformal



- · Measures only 0.72~0.738-inch in height
- Prevents mechanical issues, and improves heat dissipation
- Supports ECC error detection and correction
- · Supports a built-in temperature-monitoring thermal sensor
- · Applicable for space-constrained, servers and workstations that require high stability

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Model	DDR4 VLP ECC UDIMM	DDR3 VLP ECC UDIMM
Module Type	VLP ECC UDIMM	VLP ECC UDIMM
Memory Technology	DDR4	DDR3
Frequency	2133/2400/2666/2933/3200	1066/1333/1600
Density	4G/8G/16G/32G	1G/2G/4G/8G
Voltage	1.2v	1.5v/1.35v
Pin Count	288-Pin	240-Pin
Width	72-Bit	72-Bit
PCB Height	0.738"	0.738"
Operation Temperature	TC=0°C to 85°C	TC=0°C to 85°C
Application	Healthcare / Serve	er & Networking
Value-Added	Terrinal General General Country	The ment of the street of the

Mini DIMM

Mini RDIMM

- · Supports a built-in temperature-monitoring thermal sensor
- · High capacity, high performance and high stability
- Supports ECC error detection and correction
- · Measures only 80~82mm long
- Applicable for space-constrained networking, communication, server and embedded system



Model	DDR4 Mini RDIMM	
Module Type	(VLP) Mini RDIMM	
Memory Technology	DDR4	
Frequency	2133/2400/2666	
Density	4GB/8GB/16GB	
Voltage	1.2v	
Pin Count	288-Pin	
Width	72-Bit	
PCB Height	0.738"/1.23"	
Operation Temperature	TC=0°C to 85°C	
Application	Server & Networking	

Value-Added









Mini ECC UDIMM

- · Supports a built-in temperature-monitoring thermal sensor
- · High capacity, high performance and high stability
- Supports ECC error detection and correction
- · Measures only 80~82mm long
- · Applicable for space-constrained networking, communication, server and embedded systems



Model	DDR4 VLP Mini ECC UDIMM	
Module Type	VLP Mini ECC UDIMM	
Memory Technology	DDR4	
Frequency	2133/2400/2666	
Density	4G/8G/16G	
Voltage	1.2v	
Pin Count	288-Pin	
Width	72-Bit	
PCB Height	0.738"	
Operation Temperature	TC=0°C to 85°C	
Application	Server & Networking	





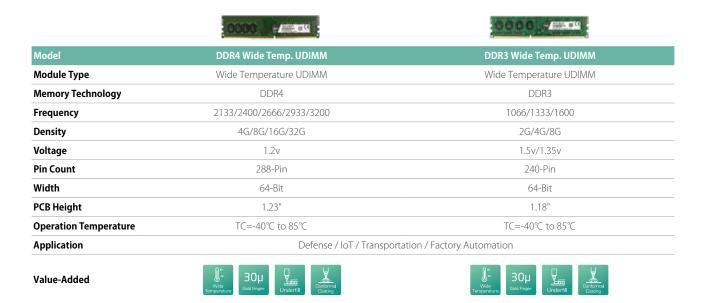




Wide Temperature

Wide Temp UDIMM (Wide Temperature UDIMM)

- · Able to operate in temperatures ranging from -40°C to 85°C
- · Uses industrial-grade SDRAM components
- · With 30u gold plating PCB to improve anti-oxidation and ensure stability of signal transmission
- · Applicable for industrial, defense, aeronautical and vehicular systems that face extreme environmental challenges



Wide Temp SODIMM (Wide Temperature SODIMM)

- Able to operate in temperatures ranging from -40°C to 85°C
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Wide Temperature

Wide Temp ECC UDIMM (Wide Temperature ECC UDIMM)

- · Able to operate in temperatures ranging from -40 $^{\circ}$ C to 85 $^{\circ}$ C
- Uses industrial-grade SDRAM components
- With 30u gold plating PCB to improve anti-oxidation and ensure stability of signal transmission
- · Applicable for industrial, defense, aeronautical and vehicular systems that face extreme environmental challenges





Model	DDR4 Wide Temperature ECC UDIMM	Wide Temperature ECC UDIMM DDR3 Wide Temperature ECC UDIMM	
Module Type	Wide Temperature ECC UDIMM	Wide Temperature ECC UDIMM	
Memory Technology	DDR4	DDR3	
Frequency	2133/2400/2666/2933/3200	1066/1333/1600	
Density	4G/8G/16G/32G	2G/4G/8G	
Voltage	1.2v	1.2v 1.5v/1.35v	
Pin Count	288-Pin	240-Pin	
Width	72-Bit	72-Bit	
PCB Height	1.23"	1.18"	
Operation Temperature	TC=-40°C to 85°C	TC=-40°C to 85°C	
Application	Defense / IoT / Transportation / Factory Automation		
Value-Added	Wide Terripereture Gold Finger Thormal Sensor Underful Contamal Contamal	Vide Temperdiume Settor	

Wide Temp ECC SODIMM (Wide Temperature ECC SODIMM)

- Able to operate in temperatures ranging from -40°C to 85°C
- Uses industrial-grade SDRAM components
- With 30u gold plating PCB to improve anti-oxidation and ensure stability of signal transmission
- · Applicable for industrial, defense, aeronautical and vehicular systems that face extreme environmental challenges





DDR4 Wide Tempe. ECC SODIMM DDR3 Wide Tempe. ECC SODIMM		
Wide Temperature ECC SODIMM	Wide Temperature ECC SODIMM	
DDR4	DDR3	
2133/2400/2666/2933/3200	1066/1333/1600	
4G/8G/16G/32G	2G/4G/8G	
1.2v	1.5v/1.35v	
260-Pin	204-Pin	
72-Bit 72-Bit		
1.18"	1.18"	
TC=-40°C to 85°C	TC=-40°C to 85°C	
Defense / IoT / Transportation / Factory Automation		
	Wide Temperature ECC SODIMM DDR4 2133/2400/2666/2933/3200 4G/8G/16G/32G 1.2v 260-Pin 72-Bit 1.18" TC=-40°C to 85°C	





















Specialty

Anti-Sulfuration Memory Modules

- · World's first anti-sulfuration memory modules for the sulfur-containing environment
- The innovative design is now patented
- Applicable for equipment exposed in highly contaminated environment and electronic equipment used in areas of high-concentration sulfur gas

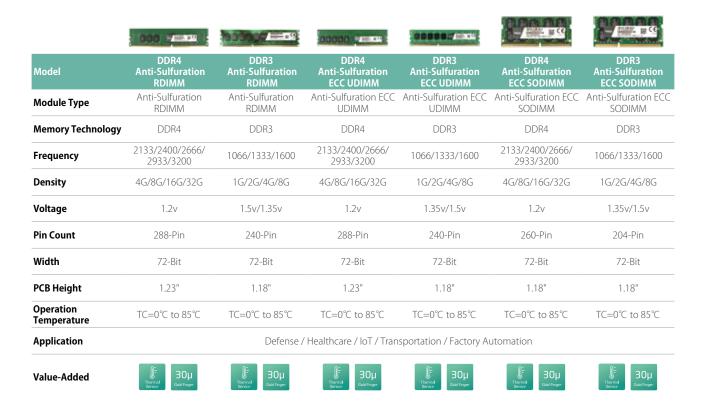








Model	DDR4 Anti-Sulfuration UDIMM	DDR3 Anti-Sulfuration UDIMM	DDR4 Anti-Sulfuration SODIMM	DDR3 Anti-Sulfuration SODIMM
Module Type	Anti-Sulfuration UDIMM	Anti-Sulfuration UDIMM	Anti-Sulfuration SODIMM	Anti-Sulfuration SODIMM
Memory Technology	DDR4	DDR3	DDR4	DDR3
Frequency	2133/2400/2666/2933/3200	1066/1333/1600	2133/2400/2666/2933/3200	1066/1333/1600
Density	4G/8G/16G/32G	1G/2G/4G/8G	4G/8G/16G/32G	1G/2G/4G/8G
Voltage	1.2v	1.35v/1.5v	1.2v	1.35v/1.5v
Pin Count	288-Pin	240-Pin	260-Pin	204-Pin
Width	64-Bit	64-Bit	64-Bit	64-Bit
PCB Height	1.23"	1.18"	1.18"	1.18"
Operation Temperature	TC=0°C to 85°C	TC=0°C to 85°C	TC=0°C to 85°C / -40°C to 85°C	TC=0°C to 85°C / -40°C to 85°C
Application	Defense / Healthcare / IoT / Transportation / Factory Automation			
Value-Added	30µ Gold Finger Underfill Conformal Coating	30µ Gald Finger Underfill Conformal Coating	30µ Gold Finger Underfill Conformal Control	30µ Cald Finger Underfill Carlormal Costong



Specialty

32-Bit SODIMM

- Supports the ARM architecture
- Provides the 32-bit ARM architecture with another design option besides on-board memory
- · Double seismic certification: RTCA DO-160G / MIL-STD-810G
- · Applicable for networking, vehicular, mobile communication and embedded device markets





Model	DDR4 32-Bit SODIMM	DDR3 32-Bit SODIMM
Module Type	32-Bit SODIMM	32-Bit SODIMM
Memory Technology	DDR4	DDR3
Frequency	2133/2400/2666	800/1066/1333
Density	2G/4G/8G	1G/2G/4G
Voltage	1.2v	1.5v
Pin Count	260-Pin	204-Pin
Width	32-Bit	32-Bit
PCB Height	1.18"	1.18"
Operation Temperature	TC=0°C to 85°C	TC=0°C to 85°C
Application	loT / Transportation	
Value-Added	Question and Conformal	Quertormal Conformal









SORDIMM (Small Outline ECC Registered DIMM)

- · Achieves signal synchronization and stability with the use of a register
- · Supports ECC error detection and correction
- · Supports a built-in temperature-monitoring thermal sensor
- · Applicable for small-sized microserver and networking equipment, such as switches and routers



Model	DDR4 SORDIMM	
Module Type	(VLP) SORDIMM	
Memory Technology	DDR4	
Frequency	2133/2400/2666	
Density	4G/8G/16G	
Voltage	1.2v	
Pin Count	260-Pin	
Width	72-Bit	
PCB Height	0.738"/1.18"	
Operation Temperature	TC=0°C to 85°C	
Application	Server & Networking	









Specialty

XR-DIMM

- · Designed for shock and vibration environments
- · Innovative design with highly rugged 300-pin connector and mounting holes
- Dual anti-shock and vibration certification: RTCA DO-160G / MIL-STD-810G
- · Improves the stability of signal transmission
- · Applicable for transportation, defense and aeronautical equipment that requires shock and vibration resistance



Model	DDR4 XR-DIMM	
Module Type	XR-DIMM	
Memory Technology	DDR4	
Frequency	2133/2400	
Density	8G/16G	
Voltage	1.2v	
Pin Count	300-Pin	
Width	72-Bit	
PCB Height	1.466"	
Operation Temperature	TC=-40°C to 85°C	
Application	Defense / Transportation	

Value-Added











Rugged SODIMM

- Designed with two mounting holes to secure the memory module to the board to achieve shock and vibration resistance
- Dual anti-shock and vibration certification: RTCA DO-160G / MIL-STD-883K
- · Applicable for transportation, automation, wind power geneation, energy, defense and aeronautical equipment that requires shock and vibration resistance



Model	DDR4 Rugged SODIMM		
Module Type	Rugged SODIMM		
Memory Technology	DDR4		
Frequency	2133/2400/2666/2933/3200		
Density	8G/16G/32G		
Voltage	1.2v		
Pin Count	260-Pin		
Width	64-Bit/72-Bit		
PCB Height	1.377"		
Operation Temperature	TC=0°C to 85°C / -40°C to 85°C		
Application	Defense / Transportation		









About Apacer

Apacer is a global leader in digital storage solutions devoted to innovative storage technology and services. After 20 years in the industry, we remain dedicated to our belief in "persistence in doing the right things." Our core values, as always, continue to revolve around reliability and innovation.

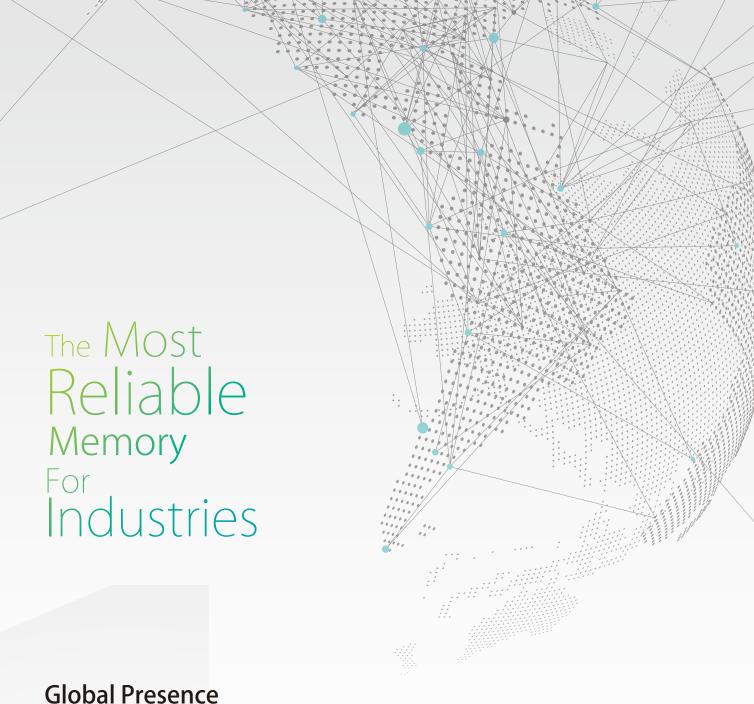
The company focuses on embedded applications for a variety of vertical markets, including military, medical, gaming, and industrial, and has become an integration expert in digital storage, innovative applications, and value-added services. Apacer is known for its advanced technologies and product quality and was ranked by Gartner as the top industrial SSD supplier for five consecutive years, from 2012 to 2016. In addition, Apacer is committed to making a positive impact on societal issues and has joined the **Responsible Business Alliance (RBA)**, which is formerly known as Electronic Industry Citizenship Coalition (EICC), a coalition promoting **corporate social responsibility (CSR)** within the global electronics supply chain. We believe that the success of a corporation is marked not by profit but by how we benefit others, whether by caring for the environment or making contributions to society.



Compliance and Associations







Taiwan (Headquarters)

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