

# DDR4 ECC SODIMM



BIWIN DDR4 ECC SODIMM is engineered for industrial applications, combining BIWIN's rigorous DRAM testing technology with powerful ECC error-correction capabilities. The DDR4 ECC SODIMM delivers high performance, exceptional stability, and broad compatibility for reliable operation for systems that require long-term stability. Built to JEDEC standards, the modules use premium ICs, tested for high performance and reliability. With a data rate of 3200 Mbps and a wide operating temperature range of -40°C to 85°C, our SODIMM is built to withstand demanding environments.

The 30μ" gold finger enhances conductivity as well as improving corrosion resistance. Paired with advanced high-frequency hardware and durable, high-reliability components, the DDR4 ECC

SODIMM is ideal for compact industrial PCs, surveillance systems, automation, and embedded applications used in demanding industrial settings.



## Key Features

### Reliable Operation in Wide-Temperature Range

The BIWIN DDR4 ECC SODIMM is engineered for reliable performance within a wide temperature range of -40°C to 85°C. Designed with high-quality components to ensure consistent operation in even the harshest industrial environments, the BIWIN DDR4 ECC SODIMM provides the lasting stability required by demanding applications.

### Exclusive Testing for Proven Reliability

Leveraging BIWIN's exclusive industrial testing technology, the BIWIN DDR4 ECC SODIMM undergoes rigorous testing, including extreme temperature testing, functionality testing, along with compatibility testing across industrial platforms. These tests ensure that the memory meets industrial-grade standards, guaranteeing reliable performance in challenging conditions.

### Tailored Solutions for Specific Needs

To meet the specific demands of diverse industrial applications, BIWIN offers customizable options, such as anti-sulfuration protection. These tailored solutions enhance the memory's reliability and extend its lifespan, ensuring optimal performance in specialized environments.

### Exceptional Stability and Compatibility

The BIWIN DDR4 ECC SODIMM is crafted with high-quality components to ensure long-term, reliable performance. With exceptional compatibility, it supports a wide range of DDR standard interfaces, delivering dependable performance for critical applications in industrial automation, industrial computers, embedded systems, and more.

## Technologies

Underfill

Sidefill

30μ" Gold Finger

Anti-Sulfuration  
Protection

ECC  
(Error Correction Code)

## Applications



Industrial  
Automation



Embedded  
System



Security  
(Encryption)



Smart Energy



Network  
Communications

## Specifications

Model Name	DDR4 Wide-Temp ECC SODIMM
Interface	DDR4
Form Factor	SODIMM
DIMM Type	ECC Unbuffered Memory
Capacity	8 GB / 16 GB
Data Rate (Up to)	3200 Mbps
Pin	260 Pin
Voltage	1.2 V
PCB Gold Finger Thickness	30μ"
Anti-Sulfuration Protection	Yes
Dimensions	69.60 x 30.00 x 3.70 mm
Operating Temperature	-40°C to 85°C / -40°C to 95°C (Optional)
Storage Temperature	-55°C to 100°C
Certifications	RoHS, CE, VOC
Warranty	5-Year Limited

## Order Information

Capacity	Part Number
8 GB	TGES4008SE
16 GB	TGES4016SC

1. Tested by BIWIN labs. Actual performance may vary due to systems, devices, or environment.
2. Maintenance and future updates are required throughout the product lifecycle. Specifications are subject to change without notice.
3. The pictures are for illustration only. Actual products may vary due to product enhancements or changes.
4. Not all products are sold in all regions of the world.
5. Please visit [www.biwintech.com](http://www.biwintech.com) for warranty details in your region.
6. For more information, please contact [sales@biwintech.com](mailto:sales@biwintech.com).

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