Wide Temp. ECC SODIMM

DDR5 Wide Temp. ECC SODIMM

- 262-pin, DDR5 ECC small outline dual in-line memory module (DDR5 ECC SO-DIMM)
- Uses original high-quality DDR5 DRAM ICs
- Equipped with power management IC (PMIC) (5V) on DIMM to efficiently control system power load
- On-die ECC error correction mechanism improves reliability
- Support ECC error detection and correction
- VDD = VDDQ = 1.1V
- VPP = 1.8V
- 32 internal banks; 8 groups of 4 banks each
- Operating case temperature range: Industrial (-40 °C ≤ TC ≤ +85°C)
- PCB: Features gold-plated thickness up to 30µ
- Lead-free (RoHS compliant)
- Halogen free
- Conformal Coating / Underfill (optional)
- Anti-sulfuration (Apacer patented) (optional)

Introduction

Apacer Wide Temp ECC SODIMM (Wide Temperature ECC SODIMM) is especially designed for harsh climate and special environmental conditions. Able to operate in temperatures ranging from -40°C to 85°C, it is applicable for industrial, military, aeronautical and vehicular systems that face extreme environment challenges. In addition to the use of original industrial-grade DRAM IC, Wide Temp ECC SODIMMs also use industrial-grade wide-temperature-range passive parts with 30u" gold plating PCB to improve anti-oxidation and ensure stability of signal transmission. Wide Temperature ECC SODIMMs have also passed industrial verification testing for high/low temperatures and the most stringent 48-hour thermal cycling test, ensuring their ability to operate for long hours in extreme environments.

Insists on using industrial-grade chips

The misuse of commercial IC increases the instability and risk for smart devices, decreasing product lifespan and potentially causing malfunctions. Apacer has long insisted on using industrial-grade chips from original manufacturers in its wide-temp solutions. With Industrial wide-temp IC, Apacer's industrial memory modules can ensure the stability of operating in harsh environments, where temperatures constantly fluctuate.

Spec

Model	DDR5 Wide Temperature ECC SODIMM
Module Type	Wide Temperature ECC SODIMM
Memory Technology	DDR5
Speed	4800/5600
Density	16G/32G
Voltage	1.1v
Pin Count	262-Pin
Width	72-Bit
PCB Height	1.18
Operating Temperature (°C)	TC=-40℃ to 85℃
Value-added Technology	Thermal Sensor / Wide Temperature / 30µ Gold Finger
Recommended Application	Defense / Factory Automation / Internet of Things / Transportation