



## DDR5 ECC SO-DIMM

TEAMGROUP's industrial DDR5 DRAM modules comply with JEDEC standards, offering better performance and stability while effectively reducing power consumption. The product is also suitable for various industrial computers, work stations and server systems. TEAMGROUP has also selected a high-quality ES level IC die that delivers performance, compatibility, and stability.

### Main Feature

- High-Speed Industrial-Grade Dram Module of the New Generation
- ES level and Industrial-Grade IC
- Power Management ICs (PMICs) Equipped.
- JEDEC Low Power 1.1V Standards
- On-Die ECC for Stable System
- Military-Grade Resistance to Shocks and Vibrations
- ROHS/CE/FCC Standards
- DFE function provides better protection for server systems
- Patented IC Grade Verification Technology (NO.: I751093)

### Product description

#### Patented IC Grade Verification Technology

Exclusive IC grade verification technology is adopted in the series for effective IC frequency and temperature grading to ensure compatibility and durability in industrial applications on various equipment.

Taiwan Invention Patent (NO.: I751093)

#### High-Speed Industrial Memory of the Next Generation

In the industrial DDR5 series, the fundamental frequency is drastically upgraded to 4800MHz. The industrial DDR5 series can be applied to 5G communications, edge computing, the Internet of Vehicles, servers, AI, industrial computers with embedded systems, and other industries.

#### Power Management ICs (PMICs) Design for Effective Load Control

The power management functions have been transferred from the motherboard to the DRAM modules for effective load management, increased reliability and performance of the DRAM modules, optimized signals, and minimal interference.

#### JEDEC Low Power 1.1V Standards

The DDR5 series requires a working voltage of only 1.1V, effectively reducing power consumption and heat production, making it great for low-power industrial systems.

#### On-die ECC for Stable System

Supports on-die ECCs, a feature that self-corrects DRAM cells for stability and reliability in systems.

#### DFE function provides better protection for server systems

TEAMGROUP DDR5 Server DIMM added DFE (Decision Feedback Equalization) support, greatly enhancing the security of the DDR5 memory modules. In terms of PCB design, resistors were removed and replaced with DFE, reducing abnormalities related to resistors, such as damage, resistor value errors, sulfuration, and other phenomena that result in quality issues. This allows industrial storage solutions to be upgraded while providing better protection for server systems.

## Specification

Frequency	4800 / 5600
Capacity	16GB/32GB
Pin Count	262 pin
Width	72 Bits
Voltage	1.1V
PCB Height	1.18 Inches
Standard Operating Temperature	0°C (32°F) ~ 85°C (185°F)
Extended Operating Temperature	-40°C (-40°F) ~ 85°C (185°F)
Shock	Operation: 50G/11ms (compliant with MIL-STD-202G Test condition A ) Non-operation: 1500G/0.5ms (compliant with MIL-STD-883K Test condition B)
Vibration	Operation: 7.69 Grms, 20~2000 Hz/random (compliant with MIL-STD-810G General) Non-operation: 4.02 Grms, 15 ~ 2000 Hz/sine (compliant with MIL-STD-810G General)
Gold Finger	30μ"
Value-Added Service	Conformal Coating
Warranty	Limited Lifetime

## Ordering information

Frequency	Capacity	Team P/N
4800	16GB	TE16GFSEV1MH
	32GB	TE32GFSEV1MH
5600	16GB	TE16GFSEV2MH
	32GB	TE32GFSEV2MH



The **T.R.U.S.T.** technology was developed by TEAMGROUP to ensure performance, reliability, and data security for special industrial and market applications. In line with TEAMGROUP's core beliefs in developing products and business connections through good faith, TEAMGROUP has created the **T.R.U.S.T.** technology for effective heat management (Temperature), robust product technologies (Robust), unique quality management (Unique), smart management technologies (Smart), data protection and durable technologies (Trusty). The five technologies are integrated to form TEAMGROUP's newest **T.R.U.S.T.** mark for industrial products.

**Temperature** - TEAMGROUP's exclusive cooling solution, ultra-wide temperature specs, and customized industrial firmware technologies allow TEAMGROUP's industrial products to maintain peak performance under harsh, high-temp environments.

**Robust** - With patented anti-sulfuration and high-voltage technologies for storage devices and the 30μ gold finger plating and coating technologies, TEAMGROUP's products are elevated to a new level of robustness.

**Unique** - Using industrial ES level IC, patented IC grade verification technology, and exclusive TeamTest verification program, TEAMGROUP has integrated a unique quality control solution.

**Smart** - Supporting global wear leveling technology, TRIM commands, and other smart management technologies and has also developed a patented S.M.A.R.T. Tool software for industrial solutions that are equipped with unique functions and interfaces to effectively increase management efficiency in TEAMGROUP SSD products.

**Trusty** - All industrial products are shock-proof and vibration-resistant according to U.S. military standards and can support hardware encryption and end-to-end data protection to offer reliable data security.

※ We reserve the right to modify product specifications without prior notice.



Team Group Inc. was founded in 1997 in Taiwan, leading the industry by possessing professional research and development capabilities and a tightly-knit global sales network in storage and memory product, ranking among CommonWealth Magazine's top 1000 enterprises.

### PERFECT CHOICE

Products from Team Group Inc. have been well received by the technology media around the globe and have won honors such as COMPUTEX d&i awards, COMPUTEX Best Choice Award, GOOD DESIGN AWARD, Golden Pin Design Award, Taiwan Excellence Awards, iF Design Award and Red Dot Award.

### GLOBALIZATION

Team Group Inc. has built up a strong center in Taiwan for production, R&D, sales and customer service, and has over 300 global sales agents and 400 employees worldwide. Team Group Inc. uses differentiating sales strategies with a global vision and localized channel management to establish a closed distribution network.

### GUARANTEED QUALITY & WARRANTY SERVICE

Team Group Inc. is well praised by the industry and customers by adhering to the corporate philosophy of "Integrity, Innovation, Professionalism, Efficiency, Discipline, and Simplicity." We offer faster repair and exchange services than others, guaranteeing a minimized delivery time for every global customer.

### SOLID R&D CAPABILITIES

With the best technical and manufacturing team, products from Team Group Inc. are made with innovation and strict quality control. Our memory technology has passed the ISO9001 and ISO14001 certifications, taking the lead in the memory industry with our latest overlocking memory modules.



3F., No.166, Jian 1st Rd., Zhonghe Dist., New Taipei City 23511, Taiwan  
Team Group Inc.  
Tel: +886-2-82265000 Fax: +886-2-82265808  
mail: sales@teamgroup.com.tw / rma@teamgroup.com.tw

