dahua
TECHNOLOGY

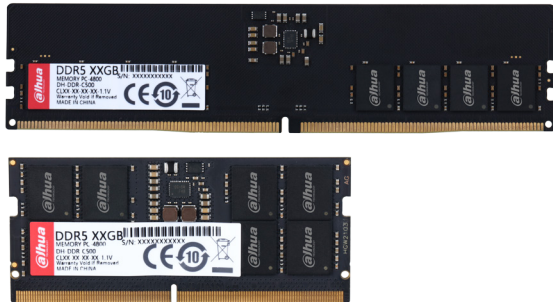# DHI-DDR-C500
Memory Module

· Higher memory frequency and robust performance.
· PMIC.
· On-die ECC.
· High-quality wafers that perform outstandingly.
· Reliable quality and lifetime warranty.

System Overview

The Dahua C500 series is a new generation of high-performance DDR5 memory. The C500 series selects high-quality particles with strong performance, starting at a frequency of 4800MHz and supporting up to 128G. It is equipped with an On die ECC error correction mechanism and PMIC power management chip, and has undergone compatibility testing with major brand motherboards to ensure excellent and stable performance on various platforms.

Functions

Higher memory frequency and robust performance
The DDR5 memory module has a high basic frequency and can reach 4800MHz from the start, which is 50% higher than the DDR4 3200MHz. Facing challenging tasks, it still provides a smooth experience.

PMIC
DDR5 memory module operates at a voltage of 1.1V, providing more energy-efficient performance than DDR4. It is equipped with a PMIC power management chip, greatly improving compatibility and signal integrity, providing more reliable and stable performance.

On-die ECC
DDR5 memory module has an built-in On die ECC error correction mechanism to improve operational stability.

High-quality wafers that perform outstandingly
Highly stable, it contains high-quality particles that underwent compatibility tests with major brands of motherboards, allowing it to perform smoothly on various platforms.

Reliable quality and lifetime warranty
Provides warranty services and free technical support during the product's service life.
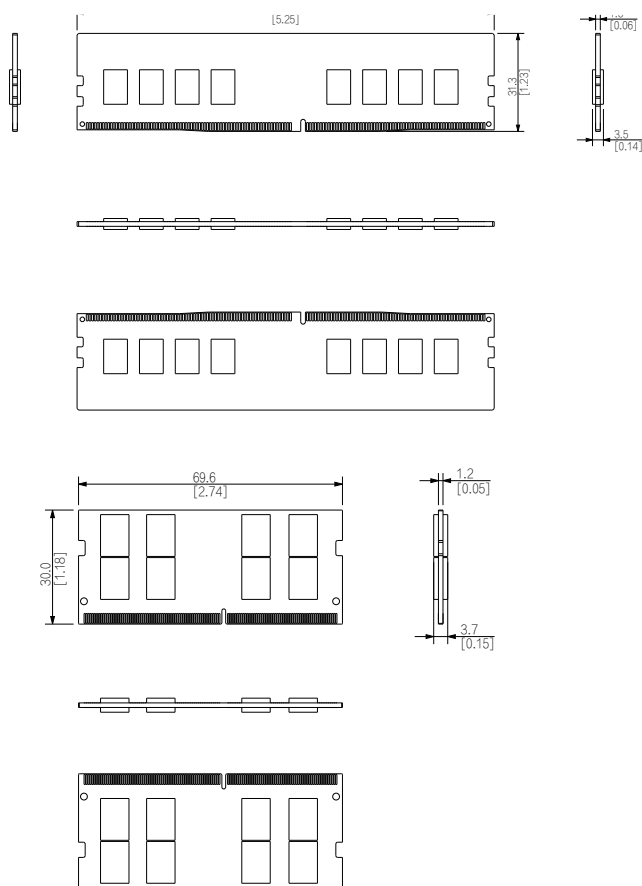
Scene

The memory module can be installed in desktops, laptops and similar devices to enhance their performance. It can also help the computer perform multiple tasks at the same time.

Technical Specification

Technical

Product Model	DHI-DDR-C500U8G48	DHI-DDR-C500U16G48	DHI-DDR-C500U8G56	DHI-DDR-C500U16G56
Capacity	8G	16G	8G	16G
Type	UDIMM			
Applicable	DDR5 Desktop			
Voltage	1.1V	1.1V	1.1V	1.1V
CAS Latency	CL40	CL40	CL46	CL46
Frequency	4800MHz	4800MHz	5600MHz	5600MHz
Number of Pins	288Pin			
Operating Temperature	0 °C to +70 °C (32 °F to +158 °F)			
Storage Temperature	−20 °C to +85 °C (−4 °F to +185 °F)			
Operating Humidity	25%–85% (RH), non-condensing			
Warranty	Lifetime			
Product Dimensions	133.35mm*47.22mm*8.57mm①			
Packaging Dimensions	176mm*79mm*9mm			
Net Weight	16g	16g	16g	16g
Gross Weight	44g	44g	44g	44g
Reference Information	① The thickness is calculated at the thickest point. 1- For memory modules of the same generation, the operating frequency is backward compatible. For example, the frequency of DDR5 includes 4800 MHz, 5600 MHz, 6000 MHz and more. The memory module with the frequency of 6000 MHz can be used in motherboards supporting 4800 MHz or 5600 MHz with lower frequency.			

Technical Specification

Technical

Product Model	DHI-DDR-C500S8G48	DHI-DDR-C500S16G48	DHI-DDR-C500S8G56	DHI-DDR-C500S16G56
Capacity	8G	16G	8G	16G
Type	SODIMM			
Applicable	DDR5 Laptop			
Voltage	1.1V	1.1V	1.1V	1.1V
CAS Latency	CL40	CL40	CL46	CL46
Frequency	4800MHz	4800MHz	5600MHz	5600MHz
Number of Pins	288Pin			
Operating Temperature	0 °C to +70 °C (32 °F to +158 °F)			
Storage Temperature	−20 °C to +85 °C (−4 °F to +185 °F)			
Operating Humidity	25%–85% (RH), non-condensing			
Warranty	Lifetime			
Product Dimensions	69*.6mm*30mm*3.58mm①			
Packaging Dimensions	110mm*100mm*10mm			
Net Weight	8.5g	8.5g	8.5g	8.5g
Gross Weight	36g	36g	36g	36g
Reference Information	① The thickness is calculated at the thickest point. 1- For memory modules of the same generation, the operating frequency is backward compatible. For example, the frequency of DDR5 includes 4800 MHz, 5600 MHz, 6000 MHz and more. The memory module with the frequency of 6000 MHz can be used in motherboards supporting 4800 MHz or 5600 MHz with lower frequency.			

Dimensions (mm[inch])

Ordering Information

Type	Model	Description
C500 SERIES	DHI-DDR-C500U8G48	C500 Series DDR5 4800 8 GB Memory Module for Desktops
	DHI-DDR-C500U16G48	C500 Series DDR5 4800 16 GB Memory Module for Desktops
	DHI-DDR-C500U8G56	C500 Series DDR5 5600 8 GB Memory Module for Desktops
	DHI-DDR-C500U16G56	C500 Series DDR5 5600 16 GB Memory Module for Desktops
	DHI-DDR-C500S8G48	C500 Series DDR5 4800 8 GB Memory Module for Laptops
	DHI-DDR-C500S16G48	C500 Series DDR5 4800 16 GB Memory Module for Laptops
	DHI-DDR-C500S8G56	C500 Series DDR5 5600 8 GB Memory Module for Laptops
	DHI-DDR-C500S16G56	C500 Series DDR5 5600 16 GB Memory Module for Laptops