The Simple Way to Overclock your memory by using XMP





Introduction

What is XMP? DOCP? A-XMP?

Overclock Memory

Introduction

Intel XMP is an automated overclocking technology that enables motherboards to configure memory settings above and beyond the basic rated speeds of the PC industry, which are often significantly slower than the speeds that are actually achievable with a few clicks and compatible hardware.

New PC builders and upgraders without experience with XMP often wonder why their memory doesn't run at its advertised speed or data rate. High-speed memory that operates outside of industry standard specifications doesn't get automatically configured when plugged into most systems. Realizing that most users won't manually overclock their memory to reach its rated above-standard rating, Intel developed an extended configuration table that's stored on each compatible memory module's EEPROM (a tiny flash storage chip), alongside the industry-standard settings which the memory will usually default to when first installed.



Introduction

What is XMP? DOCP? A-XMP?

Overclock Memory

What is XMP? DOCP? A-XMP?

Regarding to different motherboards and CPU, there are several onesetting and overclock feature name. Those are including XMP, DOCP, and A-XMP.

XMP (Extreme Memory Profile) by Intel is a preprogrammed profile that you can enable in BIOS to set the correct memory settings in one easy step. XMP is exclusive to Intel platforms only.

DOCP and A-XMP is like XMP but developed for use on AMD platforms.

The XMP/DOC/A-XMP are simple setting pre-define profile in BIOS to enhance the best performance built into PCs. It allows users to easily overclock memory by change the profile setting to achieve even better performance than factory defaults without complex and often risky changes to memory voltages or frequencies.



Introduction

What is XMP? DOCP? A-XMP?

Overclock Memory

Overclock Memory

In order to find the XMP /DOCP setting, you'll need to enter your PC's BIOS

3

1. Enter the BIOS by pressing "Delete" or "F2" refer to your motherboard/computer manual during the boot process.



06/30/2021 10:08 CPU Auto All cores Auto 36.00 3609.36MHz 100.26MHz U Clock Ratio red CPU Setting Voltage 0.996 V 38.0°0 Extreme Memory Profile(X.M.P.) XMP High Frequency Support Profile1 DDR4-3600 18-22-22-42-63-1.35V Auto 32.00 tem Memory Multiplier vanced Memory Settings 36.00 Memory Freque Size 8192MB CPU Vcore Auto 3208.32MHz ore(DVID) +0.000 VCORE SOC Dynamic VCORE SOC(DVID) Ch A/B Volt +0.000\ 1.800V Auto Auto Auto Auto 1.350 CPU VDD18 CPU VDDP A_VDD1855 1.800V 1.200V 2.500V Voltage DRAM Voltage (CH A/B) DDRVPP Voltage (CH A/B) DRAM Termination (CH A/B) +5V 5.070 V +12V 11.880 V CPU/VRM Settings Help (F1) Easy Mode (F2) Smart Fan 5 (F6) Q-Flash (F8)



Introduction What is XMP? DOCP? A-XMP?

Overclock Memory

- 2. Go to 'XMP (Extreme Memory Profile)' or 'D.O.C.P' and Click "enter".
- 3. Select profile you want to use.



	SB Clock Spread Spectrum	Auto 👻	Memory	
	Performance Enhancer	Auto 👻	Frequency	Capacity
	Memory Frequency	DDR4-3600MHz -	3200 MHZ	8192 MB
	FCLK Frequency	Auto 👻		
	CPU Core Ratio	Auto	Voltage	
	> CPU Core Ratio (Per CCX)			
(j	Select the target CPU frequency, and the relevant parameters will be auto-adjusted, When you install XMP memory modules, We provide you the optimal frequency to ensure the system stability; For higher-freq alternatives, you may find the related settings under the [Memory Frequency] item.			5.020 V
/	Version 2.20.1271. Copyright (C) 2021	Last Modified EzMode(F7) - Hot K	ieys ?	Search on FAI



Introduction

What is XMP? DOCP? A-XMP?

Overclock Memory

4. Save and apply your settings and then reboot your PC.





Introduction

What is XMP? DOCP? A-XMP?

Overclock Memory

If your motherboard support overclocking but doesn't offer XMP feature

If your motherboard support overclocking but doesn't offer XMP feature, the label on the modules will provide the speed, timing and voltage. These settings can be applied manually within the overclocking utility in your motherboard's BIOS to enable the rated speed of the module, (These motherboard might be non-intel platforms.)

HEADQUARTER

6F., No. 300, Ruiguang Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

CONTACT INFORMATION

TEL : +886-2-8797 3116 FAX : +886-2-8797 3522

www.addlink.com.tw