



GTR7显存容量设置

GTR7 搭载了强大的 Radeon 780M 核显。通常情况下,核显会共享使用系统内存,而显存的大 小直接影响显卡的性能表现,为了发挥最佳性能,需要合理设置显存容量,通常情况下,显存默 认设置为 4GB 即可发挥全部性能。

注意:如果设置不当可能会出现游戏崩溃等问题,请一定按说明文档设置。

GFX Configuration 设置参数说明:

• IGPU Configuration 是一个 BIOS 设置选项,用于配置主板上的集成显卡。用户可以通过该选项进行一系列设置,如开启或关闭集成显卡的运算能力、配置显存大小和分配方式等。

- UMA Version 是一个 BIOS 设置选项,用于配置集成显卡时所使用的 Unified Memory Architecture 版本。UMA 是一种系统内存与图形显存共享的设计方案,因此这个选项可以用来 优化内存和显存之间的数据传输速度,提高显卡性能。
- UMA Frame buffer Size 是一个 BIOS 设置选项,用于配置集成显卡所使用的显存容量。根据 实际需求,用户可以配置显存的大小和分配方式,以充分利用系统内存资源,提升显卡性能。
- GPU Host Translation Cache 是一种硬件内存管理机制,用于存储 CPU 内存中的地址映射 表,并在 GPU 访问 CPU 内存时加速地址转换操作。GPU Host Translation Cache 的大小和 运行方式可以通过 BIOS 设置进行配置,以优化系统性能。
- TCON Instant On Logo 是一个 BIOS 设置选项,用于配置主板上的 Timing Controller 硬件芯片。该芯片控制显示器的刷新速率和分辨率,TCON Instant On Logo 设置可以实现"即开即用"功能,缩短显示器开机时间,提高用户体验。

显存设置操作步骤

插入电源并启动电脑,等待显示器显示产品 LOGO 后按住键盘上的 Delete 键,即可进入 BIOS 设置 界面。或者按住 F7 进入启动菜单,选择 setup 选项进入 BIOS 设置。



进入 BIOS 设置界面后,按键盘方向键右移到 Advanced 菜单,选择 AMD CBS 选项,按 Enter 键 确认进入。

| Aptio Setup – AMI Main <mark>Advanced</mark> Chipset Security Boot Save & Exit | | |
|---|---|--|
| TPM/DTPM Computing ACPI Settings AMD CBS CPU Configuration USB Configuration Network Stack Configuration NVMe Configuration Demo Board DEM Features Management Intel(R) Ethernet Controller (3) I225-V - 70:70:FC:02:BD:AD | AMD CBS Setup Page | |
| ▶ Intel(R) Ethernet Controller (3) I225-V - 70:70:FC:02:BD:AE | <pre>++: Select Screen t1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre> | |
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找到 NBIO Common Options 菜单并按 Enter 键确认进入。

| Advanced | Aptio Setup — AMI | |
|--|------------------------------|---|
| AMD CBS | | NBIO Common Options |
| AMD CBS Revision Number | 0×0 | |
| NBID Common Options Ac Power Loss Options SMU Common Options | | <pre>>++: Select Screen f4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre> |
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进入 GFX Configuration 菜单就可以开始修改显存选项。

| Advanced | Aptio Setup – AMI | |
|------------------------------|-------------------|---|
| NBIO Common Options | | GFX Configuration |
| IOMMU ▶ GFX Configuration | [Auto] | |
| PCIe loopback Mode | [Auto] | |
| | | |
| | | |
| | | ++: Select Screen 11: Select Item |
| | | Enter: Select +/-: Change Opt. |
| | | F1: General Help F2: Previous Values F3: Optimized Defaults |
| | | F4: Save & Exit ESC: Exit |
| | | |
| | | |

BIOS 默认将显存设置为 4GB, 既可发挥产品全部性能,也不会过多占用系统内存,下图为显存为 4G 默认状态。

| Advanced | Aptio Setup – AMI | |
|--|---|---|
| GFX Configuration | | Set UMA FB size |
| iGPU Configuration UMA Version UMA Frame buffer Size GPU Host Translation Cache TCON INSTANT ON LOGO | [UMA_SPECIFIED] [Auto] [4G] [Auto] [Auto] | <pre>→+: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre> |
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自定义显存容量大小参数

- IGPU Configuration 设置为 UMA_SPECIFIED
- UMA Version 修改为 Auto

- UMA Frame buffer Size 设置为需要固定的显存容量
- GPU Host Translation Cache 修改为 Auto
- TCON INSTANT ON LOGO 修改为 Auto

下图为显存修改为 8G 状态

| Advanced | Aptio Setup - AMI | |
|--|---|---|
| GFX Configuration | | Set UMA FB size |
| IGPU Configuration UMA Version UMA Frame buffer Size GPU Host Translation Cache TCON INSTANT ON LOGO | [UMA_SPECIFIED] [Auto] [Auto] [Auto] | <pre>++: Select Screen 1↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre> |
| (the set of the set o | | CONT. |

显存容量自动调整

- IGPU Configuration 修改为 Auto
- UMA Version 修改为 Auto
- GPU Host Translation Cache 修改为 Auto
- TCON INSTANT ON LOGO 修改为 Auto

下图为显存修改为 Auto 状态

| Advanced | Aptio Setup — AMI | |
|---|----------------------------|---|
| GFX Configuration | | UMA Mode |
| IGPU Configuration UMA Version GPU Host Translation Cache TCON INSTANT ON LOGO | [Auto] [Auto] [Auto] | <pre>**: Select Screen f1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre> |
| Version 2 | | ANT |

修改完成后,按 F4 保存并退出重启即可。

| Advanced | Aptio Setu | IMA - QL | |
|---|--|--|--|
| Advanced GFX Configuration iGPU Configuration UMA Version UMA Frame buffer Size GPU Host Translation Cache TCON INSTANT ON LOGO | Aptio Setu [UMA_SPECIF [Auto] [Auto] [Auto] Save & Exi Save configurat | μρ – ΑΜΙ FIED] it Setup ———— tion and exit? | Set UMA FB size |
| | Yes | No | ←: Select Screen ↓: Select Item nter: Select /-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit |