



2021.11.22.V5

| TOUGHRAM XG RGB Support List |               |              |                                         | 8GB<br>4600MHz               |
|------------------------------|---------------|--------------|-----------------------------------------|------------------------------|
| Brand                        | INTEL Chipset | Channel      | Model                                   |                              |
| ASUS                         | INTEL Z590    | Dual (2x8GB) | PRIME Z590M-PLUS                        | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL Z590    | Dual (2x8GB) | TUF GAMING Z590-PLUS                    | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL Z590    | Dual (2x8GB) | PRIME Z590-P                            | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL Z590    | Dual (2x8GB) | PRIME Z590-A                            | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL Z590    | Dual (2x8GB) | TUF GAMING Z590-PLUS WIFI               | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL Z590    | Dual (2x8GB) | ROG STRIX Z590-A GAMING WIFI            | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL Z590    | Dual (2x8GB) | ROG STRIX Z590-F GAMING WIFI            | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL Z590    | Dual (2x8GB) | PRIME Z590-V                            | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL B560    | Dual (2x8GB) | TUF GAMING B560-PLUS WIFI               | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL B560    | Dual (2x8GB) | PRIME B560M-A                           | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL B560    | Dual (2x8GB) | TUF GAMING B560M-PLUS                   | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL B560    | Dual (2x8GB) | TUF GAMING B560M-PLUS WIFI              | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL B560    | Dual (2x8GB) | PRIME B560-PLUS                         | INTEL 11 (Y)                 |
| ASUS                         | INTEL B560    | Dual (2x8GB) | PRIME B560M-K                           | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL B560    | Dual (2x8GB) | ROG STRIX B560-F GAMING WIFI            | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL B560    | Dual (2x8GB) | PRIME B560M-K/CSM                       | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL B560    | Dual (2x8GB) | B560M-P                                 | INTEL 10 (Y)<br>INTEL 11 (Y) |
| ASUS                         | INTEL B560    | Dual (2x8GB) | EX-B560M-V5                             | INTEL 10 (Y)<br>INTEL 11 (Y) |
| Gigabyte                     | INTEL B560    | Dual (2x8GB) | B560M D2V (rev. 1.0)                    | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590 Aorus Xtreme (rev. 1.0)            | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590 Aorus Master (rev. 1.0)            | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590 Aorus Pro AX (rev. 1.0)            | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590 Aorus Elite AX (rev. 1.0)          | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590 Aorus Elite (rev. 1.0)             | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590 Aorus Ultra (rev. 1.0)             | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590 GAMING X (rev. 1.0)                | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590 VISION G (rev. 1.0)                | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590 VISION D (rev. 1.0)                | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590 UD AC (rev. 1.0)                   | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590 UD (rev. 1.0)                      | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590 AORUS XTREME WATERFORCE (rev. 1.0) | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590M GAMING X (rev. 1.0)               | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590M (rev. 1.0)                        | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590 D (rev. 1.0)                       | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z590    | Dual (2x8GB) | Z590 AORUS TACHYON (rev. 1.0)           | INTEL 11 (Y)                 |
| Gigabyte                     | INTEL Z490    | Dual (2x8GB) | Z490 Aorus Xtreme (rev. 1.x)            | INTEL 10 (Y)                 |

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| Brand                        | INTEL Chipset | Channel      | Model                       |                |
| MSI                          | INTEL B560    | Dual (2x8GB) | MPG B560I GAMING EDGE WIFI  | INTEL 11 (Y)   |
| MSI                          | INTEL B560    | Dual (2x8GB) | MAG B560 TOMAHAWK WIFI      | INTEL 11 (Y)   |
| MSI                          | INTEL B560    | Dual (2x8GB) | MAG B560 TORPEDO            | INTEL 11 (Y)   |
| MSI                          | INTEL B560    | Dual (2x8GB) | MAG B560M MORTAR WIFI       | INTEL 11 (Y)   |
| MSI                          | INTEL B560    | Dual (2x8GB) | MAG B560M MORTAR            | INTEL 11 (Y)   |
| MSI                          | INTEL B560    | Dual (2x8GB) | MAG B560M BAZOOKA           | INTEL 11 (Y)   |
| MSI                          | INTEL B560    | Dual (2x8GB) | B560M PRO                   | INTEL 11 (Y)   |
| MSI                          | INTEL B560    | Dual (2x8GB) | B560M-A PRO                 | INTEL 11 (Y)   |
| MSI                          | INTEL B560    | Dual (2x8GB) | B560M PRO-E                 | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | MEG Z590 GODLIKE            | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | MEG Z590 ACE                | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | MEG Z590 UNIFY              | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | MPG Z590 GAMING CARBON WIFI | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | MEG Z590I UNIFY             | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | MPG Z590M GAMING EDGE WIFI  | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | MPG Z590 GAMING EDGE WIFI   | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | MAG Z590 TOMAHAWK WIFI      | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | MPG Z590 GAMING PLUS        | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | Z590-A PRO                  | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | MEG Z590 ACE GOLD EDITION   | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | MPG Z590 GAMING FORCE       | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | MAG Z590 TORPEDO            | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | Z590 PRO WIFI               | INTEL 11 (Y)   |
| MSI                          | INTEL Z590    | Dual (2x8GB) | Z590 PRO 12VO               | INTEL 11 (Y)   |
| MSI                          | INTEL Z490    | Dual (2x8GB) | MEG Z490 GODLIKE            | INTEL 10 (Y)   |
| MSI                          | INTEL Z490    | Dual (2x8GB) | MEG Z490 ACE                | INTEL 10 (Y)   |
| MSI                          | INTEL Z490    | Dual (2x8GB) | MEG Z490 UNIFY              | INTEL 10 (Y)   |
| MSI                          | INTEL Z490    | Dual (2x8GB) | MPG Z490 GAMING CARBON WIFI | INTEL 10 (Y)   |
| MSI                          | INTEL Z490    | Dual (2x8GB) | MEG Z490I UNIFY             | INTEL 10 (Y)   |
| MSI                          | INTEL Z490    | Dual (2x8GB) | MPG Z490M GAMING EDGE WIFI  | INTEL 10 (Y)   |
| MSI                          | INTEL Z490    | Dual (2x8GB) | MPG Z490 GAMING EDGE WIFI   | INTEL 10 (Y)   |
| MSI                          | INTEL Z490    | Dual (2x8GB) | MAG Z490 TOMAHAWK           | INTEL 10 (Y)   |
| MSI                          | INTEL Z490    | Dual (2x8GB) | MPG Z490 GAMING PLUS        | INTEL 10 (Y)   |
| MSI                          | INTEL Z490    | Dual (2x8GB) | Z490-A PRO                  | INTEL 10 (Y)   |

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|------------------------------|------------------------------------|--------------|--------------------------------------|----------------------------------|
| Brand                        | AMD Chipset                        | Channel      | Model                                |                                  |
| ASUS                         | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | ASUS ROG STRIX B550-E Gaming         | 5000 (Y)                         |
| ASUS                         | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | ASUS ROG STRIX B550-F Gaming         | 5000 (Y)                         |
| ASUS                         | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | ASUS ROG STRIX B550-F Gaming (Wi-Fi) | 5000 (Y)                         |
| ASUS                         | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | ASUS TUF Gaming B550M-PLUS           | 5000 (Y)                         |
| ASUS                         | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | ASUS TUF Gaming B550M-PLUS (Wi-Fi)   | 5000 (Y)                         |
| ASUS                         | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | ASUS PRIME B550-PLUS                 | 5000 (Y)                         |
| ASUS                         | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | ASUS PRIME B550M-A (Wi-Fi)           | 5000 (Y)                         |
| ASUS                         | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | ASUS PRIME B550M-K                   | 5000 (Y)                         |
| ASUS                         | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | ASUS PRIME B550M-A                   | 5000 (Y)                         |
| MSI                          | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | MPG B550 GAMING CARBON WIFI          | 4000 (Y)                         |
| MSI                          | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | MPG B550 GAMING EDGE WIFI            | 4000 (Y)                         |
| MSI                          | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | MAG B550 TOMAHAWK                    | 4000 (Y)                         |
| MSI                          | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | MEG B550 UNIFY-X                     | 5000 (Y)<br>4000 (Y)<br>3000 (Y) |
| MSI                          | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | MEG B550 UNIFY                       | 5000 (Y)<br>4000 (Y)<br>3000 (Y) |

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|------------------------------|------------------------------------|--------------|------------------------------------|----------------|
| Brand                        | AMD Chipset                        | Channel      | Model                              |                |
| Gigabyte                     | AMD X570<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | X570 I AORUS PRO WIFI (rev. 1.0)   | 5000 (Y)       |
| Gigabyte                     | AMD X570<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | X570 AORUS PRO (rev.1.0)           | 5000 (Y)       |
| Gigabyte                     | AMD X570<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | X570 I AORUS PRO WIFI (rev. 1.0)   | 5000 (Y)       |
| Gigabyte                     | AMD X570<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | X570 AORUS XTREME (rev. 1.1)       | 5000 (Y)       |
| Gigabyte                     | AMD X570<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | X570 AORUS MASTER (rev. 1.1/1.2)   | 5000 (Y)       |
| Gigabyte                     | AMD X570<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | X570 AORUS ULTRA (rev. 1.1/1.2)    | 5000 (Y)       |
| Gigabyte                     | AMD X570<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | X570 AORUS PRO WIFI (rev. 1.1/1.2) | 5000 (Y)       |
| Gigabyte                     | AMD X570<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | X570 AORUS PRO (rev.1.1/1.2)       | 5000 (Y)       |
| Gigabyte                     | AMD X570<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | X570 AORUS XTREME (rev. 1.2)       | 5000 (Y)       |
| Gigabyte                     | AMD X570<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | X570 GAMING X (rev. 1.1)           | 5000 (Y)       |
| Gigabyte                     | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | B550 AORUS MASTER (rev. 1.0)       | 5000 (Y)       |
| Gigabyte                     | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | B550 AORUS PRO AC (rev. 1.x)       | 5000 (Y)       |
| Gigabyte                     | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | B550 VISION D (rev.1.0)            | 5000 (Y)       |
| Gigabyte                     | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | B550 AORUS PRO AX (rev. 1.0)       | 5000 (Y)       |
| Gigabyte                     | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | B550 AORUS PRO (rev. 1.0)          | 5000 (Y)       |
| Gigabyte                     | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | B550 AORUS PRO V2 (rev. 1.0)       | 5000 (Y)       |
| Gigabyte                     | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | B550I AORUS PRO AX (rev.1.0)       | 5000 (Y)       |
| Gigabyte                     | AMD B550<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | B550 VISION D-P (rev. 1.0)         | 5000 (Y)       |
| Gigabyte                     | AMD A520<br>Vermeer/Renoir/Matisse | Dual (2x8GB) | A520I AC (rev. 1.x)                | 5000 (Y)       |

Supports Intel® Extreme Memory Profile (XMP)

\* Please refer to your motherboard's specification page for more details.

\* The maximum memory frequency supported varies by processor.

Support AMD Ryzen™ 3000-Series CPU , Ryzen™ 4000-Series APU, Ryzen™ 5000-Series CPU

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