



2021.09.06.V1

TOUGHRAM Z-ONE RGB Support List				8GB 4600MHz
Brand	INTEL Chipset	Channel	Model	
ASUS	INTEL B560	Dual (2x8GB)	TUF GAMING B560-PLUS WIFI	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	PRIME B560M-A	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	PRIME B560M-A/CSM	INTEL 10 (Y)
ASUS	INTEL B560	Dual (2x8GB)	TUF GAMING B560M-PLUS	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	TUF GAMING B560M-PLUS WIFI	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	PRIME B560-PLUS	INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	PRIME B560M-K	INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	ROG STRIX B560-F GAMING WIFI	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	ROG STRIX B560-A GAMING WIFI	INTEL 10 (Y)
ASUS	INTEL B560	Dual (2x8GB)	PRIME B560M-K/CSM	INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	B560M-P	INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	EX-B560M-V5	INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	PRIME Z590M-PLUS	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	TUF GAMING Z590-PLUS	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	PRIME Z590-P	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	PRIME Z590-A	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	TUF GAMING Z590-PLUS WIFI	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	ROG STRIX Z590-I GAMING WIFI	INTEL 10 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	ROG STRIX Z590-A GAMING WIFI	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	ROG Maximus XIII Extreme	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	ROG Maximus XIII Extreme Glacial	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	ROG STRIX Z590-F GAMING WIFI	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	ROG STRIX Z590-E GAMING WIFI	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	ROG MAXIMUS XIII HERO	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	PRIME Z590-V	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	Prime Z490-A	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	Prime Z490-P	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Strix Z490-A Gaming	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Strix Z490-E Gaming	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Strix Z490-F Gaming	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Strix Z490-G Gaming	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Strix Z490-H Gaming	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Strix Z490-I Gaming	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	TUF Gaming Z490-Plus	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	TUF Gaming Z490-Plus (WI-FI)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Maximus XII Hero (WI-FI)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Maximus XII Formula	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Maximus XII Apex	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Maximus XII Extreme	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ProArt Z490-CREATOR 10G	INTEL 10 (Y)

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

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Brand	INTEL Chipset	Channel	Model	
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Taichi	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Steel Legend WiFi 6E	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Pro4	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Extreme WiFi 6E	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Extreme	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Steel Legend	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 PG Velocita	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Steel Legend WiFi 6E	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 OC Formula	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Phantom Gaming-ITX/TB4	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560 AORUS PRO AX (rev. 1.0)	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560M AORUS PRO (rev. 1.0)	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560M AORUS PRO AX (rev. 1.0)	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560M AORUS ELITE (rev. 1.0)	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560M D2V (rev. 1.0)	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 Aorus Xtreme	INTEL 10 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 Aorus Master	INTEL 10 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 Aorus Pro AX	INTEL 10 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 Aorus Elite AX	INTEL 10 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 Aorus Elite	INTEL 10 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 Aorus Ultra	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 GAMING X	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 VISION G	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 VISION D	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 UD AC	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 UD	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 AORUS XTREME WATERFORCE	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590M GAMING X	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590M	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 D	INTEL 11 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS XTREME WATERFORCE	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS XTREME	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS MASTER	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS ULTRA	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS ULTRA G2	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS PRO AX	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS ELITE	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490I AORUS ULTRA	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS ELITE AC	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 Aorus Master Waterforce	INTEL 11 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 VISION G	INTEL 10 (Y)

TOUGHRAM Z-ONE RGB Support List				8GB 4600MHz
Brand	AMD Chipset	Channel	Model	
ASUS	AMD B550 Renoir/Vermeer	Dual (2x8GB)	ROG STRIX B550-E Gaming	Y(5000) Y(4000)
ASUS	AMD B550 Renoir/Vermeer	Dual (2x8GB)	ROG STRIX B550-F Gaming	Y(5000) Y(4000)
ASUS	AMD B550 Renoir/Vermeer	Dual (2x8GB)	ROG STRIX B550-F Gaming (Wi-Fi)	Y(5000) Y(4000)
ASUS	AMD B550 Renoir/Vermeer	Dual (2x8GB)	TUF Gaming B550M-PLUS	Y(5000)
ASUS	AMD B550 Vermeer	Dual (2x8GB)	TUF Gaming B550M-PLUS (Wi-Fi)	Y(5000)
ASUS	AMD B550 Vermeer	Dual (2x8GB)	PRIME B550-PLUS	Y(5000)
ASUS	AMD B550 Vermeer	Dual (2x8GB)	PRIME B550M-A (Wi-Fi)	Y(5000)
ASUS	AMD B550 Vermeer	Dual (2x8GB)	PRIME B550M-K	Y(5000)
ASUS	AMD B550 Vermeer	Dual (2x8GB)	PRIME B550M-A	Y(5000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MPG B550 GAMING CARBON WIFI	Y(5000) Y(4000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MPG B550 GAMING EDGE WIFI	Y(5000) Y(4000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MAG B550 TOMAHAWK	Y(5000) Y(4000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MEG B550 UNIFY-X	Y(5000) Y(4000) Y(3000)

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Brand	AMD Chipset	Channel	Model	
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 AORUS MASTER	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 AORUS PRO AC	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 VISION D	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 AORUS PRO AX	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 AORUS PRO	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 AORUS PRO V2	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir	Dual (2x8GB)	B550M H	Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir	Dual (2x8GB)	B550M GAMING	Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir	Dual (2x8GB)	B550M S2H	Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550I AORUS PRO AX	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 VISION D-P	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD A520 Matisse/Renoir/Vermeer	Dual (2x8GB)	A520I AC	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD A520 Matisse/Renoir	Dual (2x8GB)	A520M S2H	Y(4000) Y(3000)
Gigabyte	AMD A520 Matisse/Renoir	Dual (2x8GB)	A520M H	Y(4000) Y(3000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 AORUS PRO WIFI (rev. 1.0)	Y(5000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 AORUS PRO (rev.1.0)	Y(5000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 I AORUS PRO WIFI (rev. 1.0)	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 GAMING X (rev. 1.0)	Y(4000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 AORUS XTREME (rev. 1.1)	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 AORUS MASTER (rev. 1.1/1.2)	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 AORUS ULTRA (rev. 1.1/1.2)	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 AORUS PRO WIFI (rev. 1.1/1.2)	Y(5000) Y(4000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 AORUS PRO (rev.1.1/1.2)	Y(5000) Y(4000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 AORUS XTREME (rev. 1.2)	Y(5000) Y(4000) Y(3000)

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

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