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TOUGHGRAM Z-ONE RGB Support List				8GB 4000MHz	8GB 4400MHz
Brand	INTEL Chipset	Channel	Model		
ASUS	INTEL B560	Dual (2x8GB)	TUF GAMING B560-PLUS WIFI	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	PRIME B560M-A	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	PRIME B560M-A/CSM	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL B560	Dual (2x8GB)	TUF GAMING B560M-PLUS	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	TUF GAMING B560M-PLUS WIFI	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	PRIME B560-PLUS	INTEL 11 (Y)	INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	PRIME B560M-K	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	ROG STRIX B560-F GAMING WIFI	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	ROG STRIX B560-G GAMING WIFI	INTEL 11 (Y)	INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	ROG STRIX B560-A GAMING WIFI	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL B560	Dual (2x8GB)	PRIME B560M-K/CSM	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	B560M-P	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	EX-B560M-V5	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	PRIME Z590M-PLUS	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	TUF GAMING Z590-PLUS	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	PRIME Z590-P	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	PRIME Z590-A	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	TUF GAMING Z590-PLUS WIFI	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	ROG STRIX Z590-A GAMING WIFI	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	ROG Maximus XIII Extreme	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	ROG Maximus XIII Extreme Glacial	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	ROG STRIX Z590-F GAMING WIFI	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	ROG STRIX Z590-E GAMING WIFI	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	ROG MAXIMUS XIII HERO	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z590	Dual (2x8GB)	PRIME Z590-V	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	Prime Z490-A	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	Prime Z490-P	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Strix Z490-A Gaming	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Strix Z490-E Gaming	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Strix Z490-F Gaming	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Strix Z490-G Gaming	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Strix Z490-H Gaming	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	TUF Gaming Z490-Plus	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	TUF Gaming Z490-Plus (WI-FI)	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Maximus XII Hero (WI-FI)	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Maximus XII Formula	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ROG Maximus XII Extreme	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	ProArt Z490-CREATOR 10G	INTEL 10 (Y)	INTEL 10 (Y)



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



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TOUGHRAM Z-ONE RGB Support List				8GB	8GB
Brand	INTEL Chipset	Channel	Model	4000MHz	4400MHz
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 Aorus Xtreme	INTEL 11 (Y)	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 Aorus Master	INTEL 11 (Y)	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 Aorus Pro AX	INTEL 11 (Y)	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590I Aorus Ultra	INTEL 11 (Y)	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 Aorus Elite AX	INTEL 11 (Y)	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 Aorus Elite	INTEL 11 (Y)	INTEL 11 (Y)
Gigabyte	INTEL Z590	Dual (2x8GB)	Z590 AORUS TACHYON (rev. 1.0)	INTEL 11 (Y)	INTEL 11 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS XTREME WATERFORCE	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS XTREME	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS MASTER	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS ULTRA G2	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS ULTRA	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS PRO AX	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS ELITE AC	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 AORUS ELITE	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 VISION G	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 VISION D	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 GAMING X AX	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 GAMING X	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490M GAMING X	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 UD AC	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 UD	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490M	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490I AORUS ULTRA	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL Z490	Dual (2x8GB)	Z490 UD AC-Y1 (rev. 1.0)	INTEL 10 (Y)	INTEL 10 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560I AORUS PRO AX (rev. 1.0)	INTEL 11 (Y)	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560 AORUS PRO AX (rev. 1.0)	INTEL 11 (Y)	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560M DS3H (rev. 1.0)	--	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560M AORUS PRO (rev. 1.0)	INTEL 11 (Y)	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560M AORUS PRO AX (rev. 1.0)	INTEL 11 (Y)	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560 HD3 (rev. 1.0)	--	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560M DS3H AC (rev. 1.0)	--	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560M AORUS ELITE (rev. 1.0)	INTEL 11 (Y)	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560M D3H (rev. 1.0)	INTEL 11 (Y)	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	B560M D2V (rev. 1.0)	INTEL 11 (Y)	INTEL 11 (Y)
Gigabyte	INTEL B560	Dual (2x8GB)	GA-B560M-D3P (rev. 1.0)	--	INTEL 11 (Y)



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TOUGHRAM Z-ONE RGB Support List				8GB 4000MHz	8GB 4400MHz
Brand	INTEL Chipset	Channel	Model		
ASRock	INTEL B560	Dual (2x8GB)	B560 Steel Legend	INTEL 10 (Y)	--
ASRock	INTEL B560	Dual (2x8GB)	B560 Pro4	INTEL 10 (Y) INTEL 11 (Y)	--
ASRock	INTEL B560	Dual (2x8GB)	B560M Steel Legend	INTEL 10 (Y)	--
ASRock	INTEL B560	Dual (2x8GB)	B560M Pro4	INTEL 10 (Y)	--
ASRock	INTEL B560	Dual (2x8GB)	B560M-HDV	INTEL 10 (Y)	--
ASRock	INTEL B560	Dual (2x8GB)	B560M-ITX/ac	INTEL 10 (Y)	INTEL 10 (Y)
ASRock	INTEL B560	Dual (2x8GB)	B560M PRO4/ac	INTEL 10 (Y)	--
ASRock	INTEL B560	Dual (2x8GB)	B560M-HDV-A	INTEL 10 (Y)	--
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Taichi	INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Steel Legend WiFi 6E	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Pro4	INTEL 10 (Y) INTEL 11 (Y)	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590M Phantom Gaming 4	INTEL 10 (Y)	--
ASRock	INTEL Z590	Dual (2x8GB)	Z590M Pro4	INTEL 10 (Y)	--
ASRock	INTEL Z590	Dual (2x8GB)	Z590M-ITX/ax	INTEL 10 (Y)	--
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Extreme WiFi 6E	INTEL 10 (Y) INTEL 11 (Y)	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Extreme	INTEL 10 (Y) INTEL 11 (Y)	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Steel Legend	INTEL 10 (Y) INTEL 11 (Y)	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 PG Velocita	INTEL 10 (Y) INTEL 11 (Y)	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Phantom Gaming 4/ac	INTEL 10 (Y)	--
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Phantom Gaming 4/ac+	INTEL 10 (Y)	--
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Phantom Gaming 4	INTEL 10 (Y)	--
ASRock	INTEL Z590	Dual (2x8GB)	Z590 OC Formula	INTEL 11 (Y)	INTEL 11 (Y)
ASRock	INTEL Z590	Dual (2x8GB)	Z590 Phantom Gaming-ITX/TB4	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASRock	INTEL Z490	Dual (2x8GB)	Z490 AQUA	INTEL 10 (Y)	INTEL 10 (Y)
ASRock	INTEL Z490	Dual (2x8GB)	Z490 PG Velocita	INTEL 10 (Y)	INTEL 10 (Y)
ASRock	INTEL Z490	Dual (2x8GB)	Z490 Phantom Gaming -ITX/TB3	INTEL 10 (Y)	--
ASRock	INTEL Z490	Dual (2x8GB)	Z490M Pro4	INTEL 10 (Y)	INTEL 10 (Y)
ASRock	INTEL Z490	Dual (2x8GB)	Z490 Phantom Gaming 4	INTEL 10 (Y)	--
ASRock	INTEL Z490	Dual (2x8GB)	Z490M-ITX/ac	INTEL 10 (Y)	--
ASRock	INTEL Z490	Dual (2x8GB)	Z490 Pro4	INTEL 10 (Y)	--



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TOUGHRAM Z-ONE RGB Support List				8GB 4000MHz	8GB 4400MHz
Brand	AMD Chipset	Channel	Model		
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MPG B550 GAMING CARBON WIFI	Y(5000) Y(3000)	Y(5000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MPG B550 GAMING EDGE WIFI	Y(5000) Y(3000)	Y(5000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MAG B550 TOMAHAWK	Y(5000) Y(3000)	Y(5000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MPG B550I GAMING EDGE WIFI	Y(5000) Y(4000) Y(3000)	Y(5000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MAG B550M MORTAR WIFI	Y(5000) Y(3000)	Y(5000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MAG B550M MORTAR	Y(5000) Y(3000)	Y(5000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MPG B550 GAMING PLUS	Y(5000) --(4000) Y(3000)	Y(5000) --(4000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550-A PRO	Y(5000) Y(3000)	Y(5000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MAG B550M BAZOOKA	Y(5000) Y(3000)	Y(5000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M PRO-VDH WIFI	Y(5000) Y(3000)	Y(5000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MEG B550 UNIFY-X	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
MSI	AMD B550 Matisse/Vermeer	Dual (2x8GB)	MEG B550 UNIFY	Y(5000) Y(3000)	Y(5000) Y(3000)
TOUGHRAM Z-ONE RGB Support List				8GB 4000MHz	8GB 4400MHz
Brand	AMD Chipset	Channel	Model		
ASUS	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	ROG STRIX B550-E Gaming	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
ASUS	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	ROG STRIX B550-F Gaming	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
ASUS	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	ROG STRIX B550-F Gaming (Wi-Fi)	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
ASUS	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	ASUS TUF Gaming B550M-PLUS	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
ASUS	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	TUF Gaming B550M-PLUS (Wi-Fi)	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
ASUS	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	ASUS PRIME B550-PLUS	Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
ASUS	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	PRIME B550M-A (Wi-Fi)	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
ASUS	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	PRIME B550M-K	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
ASUS	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	PRIME B550M-A	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)



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Brand	AMD Chipset	Channel	Model		
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	ASRock B550 Phantom Gaming-ITX/ax	Y(5000) Y(4000) Y(3000)	--
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	ASRock B550M Steel Legend	Y(5000) Y(4000) Y(3000)	--
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	ASRock B550 Taichi	Y(5000) Y(4000) Y(3000)	--
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	ASRock B550 Extreme 4	Y(5000) Y(4000) Y(3000)	--
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 Steel Legend	Y(5000) Y(4000) Y(3000)	--
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M-HDV	Y(5000) Y(4000) Y(3000)	--
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M-ITX ac	Y(5000) Y(4000) Y(3000)	--
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 Pro4	Y(5000) Y(4000) Y(3000)	--
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 PG Velocita	Y(5000) Y(4000) Y(3000)	--
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 Phantom Gaming 4/ac	Y(5000) Y(4000) Y(3000)	--
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 Phantom Gaming 4	Y(5000) Y(4000) Y(3000)	--
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M Pro4	Y(5000) Y(4000) Y(3000)	--
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 Taichi Razer Edition	Y(5000) Y(4000) Y(3000)	--
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M Phantom Gaming 4	Y(5000) Y(4000) Y(3000)	--
ASRock	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M/ac	Y(5000) Y(4000) Y(3000)	--



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TOUGHRAM Z-ONE RGB Support List				8GB 4000MHz	8GB 4400MHz
Brand	AMD Chipset	Channel	Model		
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 AORUS MASTER	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 AORUS PRO AC	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 VISION D	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 AORUS PRO AX	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 AORUS PRO	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 AORUS PRO V2	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M H	Y(5000) Y(4000) Y(3000)	Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M GAMING	Y(5000) Y(4000) Y(3000)	Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M S2H	Y(5000) Y(4000) Y(3000)	Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550I AORUS PRO AX	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 GAMING X	Y(5000) Y(4000)	--
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 Gaming X V2	Y(5000) Y(4000)	--
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M AORUS ELITE	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 AORUS ELITE	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M AORUS PRO-P	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 AORUS ELITE AX	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 AORUS ELITE V2	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 AORUS ELITE AX V2	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M DS3H	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M DS3H AC	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M AORUS PRO	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550 VISION D-P	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)



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TOUGHRAM Z-ONE RGB Support List				8GB 4000MHz	8GB 4400MHz
Brand	AMD Chipset	Channel	Model		
Gigabyte	AMD A520 Matisse/Renoir/Vermeer	Dual (2x8GB)	A520 AORUS ELITE	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD A520 Matisse/Renoir/Vermeer	Dual (2x8GB)	A520M AORUS ELITE	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD A520 Matisse/Renoir/Vermeer	Dual (2x8GB)	A520I AC	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD A520 Matisse/Renoir/Vermeer	Dual (2x8GB)	A520M DS3H	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD A520 Matisse/Renoir/Vermeer	Dual (2x8GB)	A520M S2H	Y(5000) Y(4000) Y(3000)	Y(4000) Y(3000)
Gigabyte	AMD A520 Matisse/Renoir/Vermeer	Dual (2x8GB)	A520M DS3H AC	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD A520 Matisse/Renoir/Vermeer	Dual (2x8GB)	A520M H	Y(5000) Y(4000) Y(3000)	Y(4000) Y(3000)
TOUGHRAM Z-ONE RGB Support List				8GB 4000MHz	8GB 4400MHz
Brand	AMD Chipset	Channel	Model		
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 AORUS ELITE WIFI (rev. 1.x)	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD X570_Vermeer	Dual (2x8GB)	X570 AORUS XTREME (rev. 1.0)	Y(5000)	--
Gigabyte	AMD X570_Vermeer	Dual (2x8GB)	X570 AORUS MASTER (rev. 1.0)	Y(5000)	--
Gigabyte	AMD X570_Vermeer	Dual (2x8GB)	X570 AORUS ULTRA (rev. 1.0)	Y(5000)	--
Gigabyte	AMD X570_Vermeer	Dual (2x8GB)	X570 AORUS PRO WIFI (rev. 1.0)	Y(5000)	Y(5000)
Gigabyte	AMD X570_Vermeer	Dual (2x8GB)	X570 AORUS PRO (rev.1.0)	Y(5000)	Y(5000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 AORUS ELITE (rev. 1.0)	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 I AORUS PRO WIFI (rev. 1.0)	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 GAMING X (rev. 1.0)	Y(5000) Y(4000) Y(3000)	Y(4000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 UD (rev. 1.0)	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 AORUS XTREME (rev. 1.1)	Y(5000) Y(4000) Y(3000)	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)	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)	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)	Y(5000) Y(4000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 AORUS PRO (rev.1.1/1.2)	Y(5000) Y(4000)	Y(5000) Y(4000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 AORUS XTREME (rev. 1.2)	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 UD (rev. 1.1)	Y(5000) Y(4000) Y(3000)	--
Gigabyte	AMD X570 Matisse/Renoir/Vermeer	Dual (2x8GB)	X570 GAMING X (rev. 1.1)	Y(5000) Y(4000) Y(3000)	--



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TOUGHRAM Z-ONE RGB Support List				8GB 4000	8GB 4400
Brand	AMD INTEL Chipset	Channel	Model		
ASUS	INTEL Z390	Dual (2x8GB)	ROG MAXIMUS XI FORMULA	○	--
ASUS	INTEL Z390	Dual (2x8GB)	ROG MAXIMUS XI HERO(WIFI)	○	--
ASUS	INTEL Z390	Dual (2x8GB)	ROG MAXIMUS XI HERO	○	--
ASUS	INTEL Z390	Dual (2x8GB)	ROG MAXIMUS XI GENE	○	○
ASUS	INTEL Z390	Dual (2x8GB)	ROG PRIME Z390-A	○	--
ASUS	INTEL Z390	Dual (2x8GB)	ROG STRIX Z390-E Gaming	○	--
ASUS	INTEL X299	Dual (2x8GB)	Prime X299 Deluxe2	○	--
ASUS	AMD X570(Matisse)	Dual (2x8GB)	PRIME X570-P	○	○
ASUS	AMD X570(Matisse)	Dual (2x8GB)	ROG CROSSHAIR VIII FORMULA	○	--
ASUS	AMD X570(Matisse)	Dual (2x8GB)	ROG CROSSHAIR VIII HERO(WIFI)	○	--
ASUS	AMD X570(Matisse)	Dual (2x8GB)	ROG CROSSHAIR VIII HERO	○	○
ASUS	AMD X570(Matisse)	Dual (2x8GB)	TUF X570-PRO(WIFI)	○	--
ASUS	AMD X570(Matisse)	Dual (2x8GB)	ROG STIX X570-E	○	--
ASUS	AMD X570(Matisse)	Dual (2x8GB)	TUF Gaming X570 Plus	○	--
ASUS	AMD X570(Matisse)	Dual (2x8GB)	ROG CROSSHAIR VIII impact	--	○
ASUS	AMD X570(Matisse)	Dual (2x8GB)	Prime TRX40-pro	--	○
ASUS	AMD TRX40	Dual (2x8GB)	ROG ZENITH II EXTRME	○	--
ASUS	AMD TRX40	Dual (2x8GB)	ROG ZENITH II EXTRME ALPHA	○	--
ASUS	AMD TRX40	Dual (2x8GB)	PRIME TRX40 PRO	○	--
ASUS	AMD TRX40	Dual (2x8GB)	STRIX TRX40-E GAMING	○	--
ASUS	AMD TRX40	Dual (2x8GB)	STRIX TRX40-XE GAMING	○	--
MSI	INTEL Z390	Dual (2x8GB)	Z390-A PRO	○	○
MSI	INTEL Z390	Dual (2x8GB)	MAG Z390 TOMAHAWK	○	○
MSI	INTEL Z390	Dual (2x8GB)	MAG Z390M MORTAR	○	○
MSI	INTEL Z390	Dual (2x8GB)	MPG Z390 GAMING PLUS	○	○
MSI	INTEL Z390	Dual (2x8GB)	MPG Z390M GAMING PLUS AC	○	○
MSI	INTEL Z390	Dual (2x8GB)	MPG Z390 GAMING EDGE AC	○	○
MSI	INTEL Z390	Dual (2x8GB)	MPG Z390I GAMING EDGE AC	○	○
MSI	INTEL Z390	Dual (2x8GB)	MPG Z390 GAMING PRO CARBON	○	○
MSI	INTEL Z390	Dual (2x8GB)	MPG Z390 GAMING PRO CARBON AC	○	○
MSI	INTEL Z390	Dual (2x8GB)	MEG Z390 ACE	○	○
MSI	INTEL Z390	Dual (2x8GB)	MEG Z390 GODLIKE	○	○
MSI	INTEL X299	Dual (2x8GB)	MEG X299 CREATION	○	○
MSI	AMD X470(Matisse)	Dual (2x8GB)	B450I GAMING PLUS AC	○	○
MSI	AMD X470(Matisse)	Dual (2x8GB)	X470 GAMING M7 AC	○	○
MSI	AMD X470(Matisse)	Dual (2x8GB)	X470 GAMING PRO CARBON	○	○
MSI	AMD X470(Matisse)	Dual (2x8GB)	X470 GAMING PRO	○	○
MSI	AMD X570(Matisse)	Dual (2x8GB)	MEG X570 GODLIKE	○	○
MSI	AMD X570(Matisse)	Dual (2x8GB)	MEG X570 UNIFY	○	○
MSI	AMD X570(Matisse)	Dual (2x8GB)	MEG X570 ACE	○	○
MSI	AMD X570(Matisse)	Dual (2x8GB)	X570 Creation	○	○
MSI	AMD X570(Matisse)	Dual (2x8GB)	MPG X570 GAMING PLUS	○	○
MSI	AMD X570(Matisse)	Dual (2x8GB)	MPG X570 GAMING EDGE WIFI	○	○
MSI	AMD X570(Matisse)	Dual (2x8GB)	MPG X570 GAMING PRO CARBON WIFI	○	○
MSI	AMD TRX40	Dual (2x8GB)	CREATOR TRX40	○	○
MSI	AMD TRX40	Dual (2x8GB)	TRX40 PRO WIFI	○	○
Gigabyte	INTEL Z390	Dual (2x8GB)	Z390 AORUS XTREME	○	--
Gigabyte	INTEL X299	Dual (2x8GB)	X299 AORUS Master	○	--
ASRock	INTEL Z390	Dual (2x8GB)	Z390 Extreme4	○	--
ASRock	INTEL Z390	Dual (2x8GB)	Z390 Taichi	○	--
ASRock	INTEL Z390	Dual (2x8GB)	Z390 Phantom Gaming4	○	--
ASRock	INTEL Z390	Dual (2x8GB)	Z390 Phantom Gaming ITX/ac	○	--
ASRock	INTEL X299	Dual (2x8GB)	X299 Taichi HE	○	--
ASRock	AMD B450(Matisse)	Dual (2x8GB)	B450M Steel legend	○	--
ASRock	AMD X570(Matisse)	Dual (2x8GB)	X570 Taichi	○	--
ASRock	AMD X370(Matisse)	Dual (2x8GB)	X370 Taichi	○	--

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.