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TOUGHRAM 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 10 (Y) INTEL 11 (Y)	INTEL 10 (Y) INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	PRIME B560M-K	INTEL 10 (Y) INTEL 11 (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 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	B560M-P	INTEL 10 (Y) INTEL 11 (Y)	INTEL 11 (Y)
ASUS	INTEL B560	Dual (2x8GB)	EX-B560M-V5	INTEL 10 (Y) INTEL 11 (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-I GAMING WIFI	--	INTEL 10 (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)



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TOUGHRAM Support List				8GB 4000MHz	8GB 4400MHz
Brand	INTEL Chipset	Channel	Model		
ASUS	INTEL Z490	Dual (2x8GB)	Prime Z490-A	INTEL 10 (Y)	INTEL 10 (Y)
ASUS	INTEL Z490	Dual (2x8GB)	Prime Z490M-Plus	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)	ROG Strix Z490-I Gaming	--	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 Apex	--	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)
TOUGHRAM Support List				8GB 4000MHz	8GB 4400MHz
Brand	INTEL Chipset	Channel	Model		
MSI	INTEL B560	Dual (2x8GB)	MPG B560I GAMING EDGE WIFI	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y)
MSI	INTEL B560	Dual (2x8GB)	MAG B560 TOMAHAWK WIFI	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y)
MSI	INTEL B560	Dual (2x8GB)	MAG B560 TORPEDO	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (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-VDH WIFI	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y)
MSI	INTEL B560	Dual (2x8GB)	B560M PRO-VDH	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (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)
MSI	INTEL B560	Dual (2x8GB)	B560M-A PRO	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y)
MSI	INTEL B560	Dual (2x8GB)	B560M PRO-E	INTEL 10 (Y) INTEL 11 (Y)	INTEL 10 (Y)



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TOUGHRAM Support List				8GB 4000MHz	8GB 4400MHz
Brand	INTEL Chipset	Channel	Model		
MSI	INTEL Z590	Dual (2x8GB)	MEG Z590 GODLIKE	INTEL 10 (Y)	INTEL 10 (Y) INTEL 11 (Y)
MSI	INTEL Z590	Dual (2x8GB)	MEG Z590 ACE	INTEL 10 (Y)	INTEL 10 (Y) INTEL 11 (Y)
MSI	INTEL Z590	Dual (2x8GB)	MEG Z590 UNIFY	INTEL 10 (Y)	INTEL 10 (Y) INTEL 11 (Y)
MSI	INTEL Z590	Dual (2x8GB)	MPG Z590 GAMING CARBON WIFI	INTEL 10 (Y)	INTEL 10 (Y) INTEL 11 (Y)
MSI	INTEL Z590	Dual (2x8GB)	MEG Z590I UNIFY	INTEL 10 (Y)	INTEL 10 (Y) INTEL 11 (Y)
MSI	INTEL Z590	Dual (2x8GB)	MPG Z590M GAMING EDGE WIFI	INTEL 10 (Y)	INTEL 10 (Y) INTEL 11 (Y)
MSI	INTEL Z590	Dual (2x8GB)	MPG Z590 GAMING EDGE WIFI	INTEL 10 (Y)	INTEL 10 (Y) INTEL 11 (Y)
MSI	INTEL Z590	Dual (2x8GB)	MAG Z590 TOMAHAWK WIFI	INTEL 10 (Y)	INTEL 10 (Y) INTEL 11 (Y)
MSI	INTEL Z590	Dual (2x8GB)	MPG Z590 GAMING PLUS	INTEL 10 (Y)	INTEL 10 (Y) INTEL 11 (Y)
MSI	INTEL Z590	Dual (2x8GB)	Z590-A PRO	INTEL 10 (Y)	INTEL 10 (Y) INTEL 11 (Y)
MSI	INTEL Z590	Dual (2x8GB)	MEG Z590 ACE GOLD EDITION	INTEL 10 (Y)	INTEL 10 (Y) INTEL 11 (Y)
MSI	INTEL Z590	Dual (2x8GB)	MPG Z590 GAMING FORCE	INTEL 10 (Y)	INTEL 10 (Y) INTEL 11 (Y)
MSI	INTEL Z590	Dual (2x8GB)	MAG Z590 TORPEDO	INTEL 10 (Y)	INTEL 10 (Y) INTEL 11 (Y)
MSI	INTEL Z590	Dual (2x8GB)	Z590 PRO WIFI	INTEL 10 (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 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)	PRIME B550-PLUS	Y(5000) 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)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MPG B550 GAMING CARBON WIFI	Y(5000) Y(4000) Y(3000)	Y(5000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MPG B550 GAMING EDGE WIFI	Y(5000) --(4000) Y(3000)	Y(5000) --(4000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MAG B550 TOMAHAWK	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MPG B550I GAMING EDGE WIFI	Y(5000) --(4000) Y(3000)	--
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MAG B550M MORTAR WIFI	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MAG B550M MORTAR	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MPG B550 GAMING PLUS	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550-A PRO	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	MAG B550M BAZOOKA	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) Y(3000)
MSI	AMD B550 Matisse/Renoir/Vermeer	Dual (2x8GB)	B550M PRO-VDH WIFI	Y(5000) Y(4000) Y(3000)	Y(5000) Y(4000) 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/Renoir/Vermeer	Dual (2x8GB)	MEG B550 UNIFY	--	Y(5000) --(4000) Y(3000)



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TOUGHRAM Support List				8GB 4000	8GB 4400
Brand	Chipset	Channel	Model		
ASUS	Z390	Dual (2x8GB)	Z390-ROG MAXIMUS XI GENE	○	○
ASUS	Z390	Dual (2x8GB)	Z390-ROG MAXIMUS XI FORMULA	○	--
ASUS	X299	Dual (2x8GB)	PRIME X299 DELUXE	○	--
ASUS	Z390	Dual (2x8GB)	ROG-MAXIMUS XI-hero	○	--
ASUS	Z390	Dual (2x8GB)	ROG STRIX Z390-E Gaming	○	--
MSI	Z390	Dual (2x8GB)	MPG Z390 GAMING PRO CARBON AC	○	--
MSI	X299	Dual (2x8GB)	MEG X299 Creation	○	--
MSI	Z390	Dual (2x8GB)	MPG Z390I GAMING edge AC	○	○
Gigabyte	Z390	Dual (2x8GB)	Z390 AORUS XTREME	○	--
Gigabyte	X299	Dual (2x8GB)	x299 aorus-master	○	○
Asrock	X299	Dual (2x8GB)	X299 Taichi HE	○	--
ASUS	X570 (Matisse)	Dual (2x8GB)	TUF Gaming X570-Plus	○	○
ASUS	X570 (Matisse)	Dual (2x8GB)	ROG STRIX X570-E Gaming	○	○
ASUS	X570 (Matisse)	Dual (2x8GB)	ROG CROSSHAIR VII impact	○	○
ASUS	TRX40	Dual (2x8GB)	Prime TRX40-pro	○	--
ASUS	TRX40	Dual (2x8GB)	ROG Strix TRX40-E	○	--
MSI	X570 (Matisse)	Dual (2x8GB)	MEG X570 ACE	○	○
Gigabyte	X570 (Matisse)	Dual (2x8GB)	X570 AORUS PRO WIFI	○	--
Asrock	X570 (Matisse)	Dual (2x8GB)	X570 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.