

MEG Z490 TOMAHAWK

MEG Z490 GAMING CARBON WIFI

MEG Z490 GODLIKE

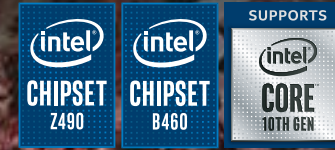
# RELEASE TRUE POWER

INTEL 400 SERIES MOTHERBOARDS

EXCEPTIONAL POWER DESIGN | PREMIUM THERMAL DESIGN | LATEST CONNECTIVITY

Model Name	MEG Z490 GODLIKE	MEG Z490 ACE	MEG Z490 UNIFY	MEG Z490I UNIFY
CPU Support	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron™ processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron™ processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron™ processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron™ processors
Chipset	Intel® Z490 Chipset	Intel® Z490 Chipset	Intel® Z490 Chipset	Intel® Z490 Chipset
CPU Socket	LGA1200	LGA1200	LGA1200	LGA1200
Graphics Interface	3x PCIe 3.0 x16 slots Support 2-Way NVIDIA® SLI™ Technology / 3-way AMD® CrossFire™ Technology	3x PCIe 3.0 x16 slots Support 2-Way NVIDIA® SLI™ Technology / 3-way AMD® CrossFire™ Technology	3x PCIe 3.0 x16 slots Support 2-Way NVIDIA® SLI™ Technology / 3-way AMD® CrossFire™ Technology	1x PCIe 3.0 x16 slot
Display Interface	2x Thunderbolt™ 3 (Type-C) – Requires Processor Graphics	-	-	Thunderbolt™ 3 (Type-C), DisplayPort port 1.4, HDMI – Requires Processor Graphics
Memory Support	4 DIMMs, Dual Channel DDR4-5000 (OC)	4 DIMMs, Dual Channel DDR4-4800 (OC)	4 DIMMs, Dual Channel DDR4-4800 (OC)	2 DIMMs, Dual Channel DDR4-5000 (OC)
Expansion Slots	1x PCIe 3.0 x1 slot	2x PCIe 3.0 x1 slots	2x PCIe 3.0 x1 slots	-
Storage	3x M.2 slots, 6x SATA 6Gb/s ports	3x M.2 slots, 6x SATA 6Gb/s ports	3x M.2 slots, 6x SATA 6Gb/s ports	2x M.2 slots, 4x SATA 6Gb/s ports
Thunderbolt™ 3	2x USB Type-C up to 40G, Charging support up to 5V/3A, 15W	-	-	1x USB Type-C up to 40G, Charging support up to 5V/3A, 15W
USB 3.2 Gen 2x2 20Gbps	-	1x USB 3.2 Gen 2x2 20G (1C)	1x USB 3.2 Gen 2x2 20G (1C)	-
USB 3.2 Gen 2 10Gbps	5x USB 3.2 Gen 2 10G (2A + 3C)	4x USB 3.2 Gen 2 10G (3A + 1C)	4x USB 3.2 Gen 2 10G (3A + 1C)	3x USB 3.2 Gen 2 10G (1A+2C)
USB 3.2 Gen 1 5Gbps	8x USB 3.2 Gen 1 5G (8A)	4x USB 3.2 Gen 1 5G (4A)	4x USB 3.2 Gen 1 5G (4A)	4x USB 3.2 Gen 1 5G (4A)
USB 2.0	6x USB 2.0	6x USB 2.0	6x USB 2.0	4x USB 2.0
LAN	1x Aquantia AQC107 10G LAN + 1x Realtek® 8125B 2.5G LAN	1x Realtek® 8125B 2.5G LAN + 1x Intel® I219V Gigabit LAN	1x Realtek® 8125B 2.5G LAN	1x Realtek® 8125B 2.5G LAN
Audio	ALC1220VB2 + ESS SABRE9018Q2C	ALC1220VB2 + ESS SABRE9018Q2C	ALC1220VB2 + ESS SABRE9018Q2C	ALC1220P-VB
Wi-Fi/BT	Intel® Wi-Fi 6 AX201	Intel® Wi-Fi 6 AX201	Intel® Wi-Fi 6 AX201	Intel® Wi-Fi 6 AX201
Form Factor	E-ATX	ATX	ATX	ITX
Accessory Cards	M.2 Xpander-Z GEN4 S	-	-	-
<b>Audio</b>				
Audio Feature	Audio Boost HD	Audio Boost HD	Audio Boost HD	Audio Boost 4
Nahimic 3 & Voice Boost	•	•	•	•
<b>Cooling</b>				
Stacked Fin Array	•	•	•	•
Frozr Heatsink Design	•	•	•	•
Aluminum Cover / Extended Heatsink	•	•	Aluminum Cover	Aluminum Cover
MOSFET Baseplate	•	•	•	•
M.2 Shield Frozr	3x	3x	3x	1x
Pump Fan / Smart Fan Control	•/•	•/•	•/•	•/•
<b>LED</b>				
Mystic Light	•	•	•	•
Mystic Light Extension	RGB / Rainbow / Corsair	RGB / Rainbow / Corsair	RGB / Rainbow / Corsair	Rainbow
Mystic Light SYNC	•	•	•	•
Ambient Link	•	•	•	•
<b>Performance</b>				
DDR4 Boost / Core Boost	•/•	•/•	•/•	•/•
Thunderbolt 3	•	•	•	•
Lightning USB 20G	•	•	•	•
Front USB Type-C	•	•	•	•
Dual CPU Power	8+8 pin	8+8 pin	8+8 pin	•
<b>Protection</b>				
PCI-E Steel Armor / Street Slot	x3 / x0	x3 / x0	x3 / x0	x1 / x0
Pre-installed I/O Shielding	•	•	•	•
Chest Plate	•	•	•	•
<b>Experience</b>				
Dynamic Dashboard II	•	•	•	•
Smart Button	•	•	•	•
Dragon Center	•	•	•	•
Click BIOS 5	•	•	•	•





MSI Z490 TOMAHAWK

MSI Z490 GAMING CARBON WIFI

MSI Z490 GODLIKE

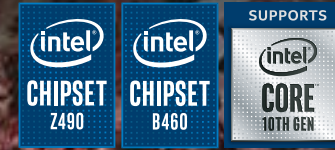
# RELEASE TRUE POWER

INTEL 400 SERIES MOTHERBOARDS

EXCEPTIONAL POWER DESIGN | PREMIUM THERMAL DESIGN | LATEST CONNECTIVITY

Model Name	MPG Z490 GAMING CARBON WIFI	MPG Z490 GAMING EDGE WIFI	MPG Z490M GAMING EDGE WIFI	MPG Z490 GAMING PLUS
CPU Support	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors
Chipset	Intel® Z490 Chipset	Intel® Z490 Chipset	Intel® Z490 Chipset	Intel® Z490 Chipset
CPU Socket	LGA1200	LGA1200	LGA1200	LGA1200
Graphics Interface	3x PCIe 3.0 x16 slots Support 2-Way NVIDIA® SLI™ Technology / 3-way AMD® CrossFire™ Technology	2x PCIe 3.0 x16 slots Support 2-Way AMD® CrossFire™ Technology	2x PCIe 3.0 x16 slots Support 2-Way NVIDIA® SLI™ Technology / 2-way AMD® CrossFire™ Technology	2x PCIe 3.0 x16 slots Support 2-way AMD® CrossFire™ Technology
Display Interface	DisplayPort, HDMI – Requires Processor Graphics	DisplayPort, HDMI – Requires Processor Graphics	DisplayPort, HDMI – Requires Processor Graphics	DisplayPort, HDMI – Requires Processor Graphics
Memory Support	4 DIMMs, Dual Channel DDR4-4800 (OC)	4 DIMMs, Dual Channel DDR4-4800 (OC)	4 DIMMs, Dual Channel DDR4-4800 (OC)	4 DIMMs, Dual Channel DDR4-4800 (OC)
Expansion Slots	2x PCIe 3.0 x1 slots	2x PCIe 3.0 x1 slots	2x PCIe 3.0 x1 slots	3x PCIe 3.0 x1 slots
Storage	2x M.2 slots, 6x SATA 6Gb/s ports	2x M.2 slots, 6x SATA 6Gb/s ports	2x M.2 slots, 4x SATA 6Gb/s ports	2x M.2 slots, 6x SATA 6Gb/s ports
Thunderbolt™ 3	-	-	-	-
USB 3.2 Gen 2x2 20Gbps	1x USB 3.2 Gen 2x2 20G (1C)	1x USB 3.2 Gen 2x2 20G (1C)	-	-
USB 3.2 Gen 2 10Gbps	5x USB 3.2 Gen 2 10G (4A + 1C)	1x USB 3.2 Gen 2 10G (1A)	3x USB 3.2 Gen 2 10G (1A+2C)	2x USB 3.2 Gen 2 10G (1A+1C)
USB 3.2 Gen 1 5Gbps	2x USB 3.2 Gen 1 5G (2A)	7x USB 3.2 Gen 1 5G (4A+1C)	4x USB 3.2 Gen 1 5G (4A)	7x USB 3.2 Gen 1 5G (4A+1C)
USB 2.0	6x USB 2.0	6x USB 2.0	6x USB 2.0	6x USB 2.0
LAN	1x Realtek® 8125B 2.5G LAN	1x Realtek® 8125B 2.5G LAN	1x Realtek® 8125B 2.5G LAN	1x Realtek® 8125B 2.5G LAN
Audio	ALC1220P-VB	ALC1200	ALC1220P-VB	ALC1200
Wi-Fi/BT	Intel® Wi-Fi 6 AX201	Intel® Wi-Fi 6 AX201	Intel® Wi-Fi 6 AX201	-
Form Factor	ATX	ATX	M-ATX	ATX
Accessory Cards	-	-	-	-
<b>Audio</b>				
Audio Feature	Audio Boost 4	Audio Boost	Audio Boost 4	Audio Boost
Nahimic 3 & Voice Boost				
<b>Cooling</b>				
Stacked Fin Array				
Frozr Heatsink Design				
Aluminum Cover / Extended Heatsink		Aluminum Cover	Aluminum Cover	Extended Heatsink
MOSFET Baseplate				
M.2 Shield Frozr	2x	1x	1x	1x
Pump Fan / Smart Fan Control	●/●	●/●	●/●	●/●
<b>LED</b>				
Mystic Light	●	●	●	●
Mystic Light Extension	RGB / Rainbow / Corsair	RGB / Rainbow	RGB / Rainbow	RGB / Rainbow
Mystic Light SYNC	●	●	●	●
Ambient Link	●	●	●	●
<b>Performance</b>				
DDR4 Boost / Core Boost	●/●	●/●	●/●	●/●
Thunderbolt 3				
Lightning USB 20G	●	●	●	●
Front USB Type-C	●	●	●	●
Dual CPU Power	8+4 pin	8+4 pin	8+4 pin	8+4 pin
<b>Protection</b>				
PCI-E Steel Armor / Street Slot	x2 / x0	x1 / x1	x2 / x0	x1 / x1
Pre-installed I/O Shielding	●	●	●	●
Chest Plate				
<b>Experience</b>				
Dynamic Dashboard II				
Smart Button				
Dragon Center	●	●	●	●
Click BIOS 5	●	●	●	●





MAG Z490 TOMAHAWK

MAG Z490 GAMING CARBON WIFI

MAG Z490 GODLIKE

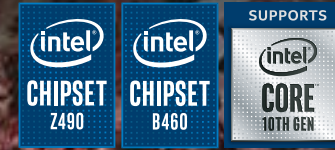
# RELEASE TRUE POWER

INTEL 400 SERIES MOTHERBOARDS

EXCEPTIONAL POWER DESIGN | PREMIUM THERMAL DESIGN | LATEST CONNECTIVITY

Model Name	MAG Z490 TOMAHAWK	MAG B460 TOMAHAWK	MAG B460M MORTAR WIFI	MAG B460M MORTAR	MAG B460M BAZOOKA
CPU Support	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors
Chipset	Intel® Z490 Chipset	Intel® B460 Chipset	Intel® B460 Chipset	Intel® B460 Chipset	Intel® B460 Chipset
CPU Socket	LGA1200	LGA1200	LGA1200	LGA1200	LGA1200
Graphics Interface	2x PCIe 3.0 x16 slots Support 2-way AMD® CrossFire™ Technology	2x PCIe 3.0 x16 slots Support 2-way AMD® CrossFire™ Technology	2x PCIe 3.0 x16 slots Support 2-way AMD® CrossFire™ Technology	2x PCIe 3.0 x16 slots Support 2-way AMD® CrossFire™ Technology	1x PCIe 3.0 x16 slot
Display Interface	DisplayPort, HDMI - Requires Processor Graphics	DisplayPort, HDMI - Requires Processor Graphics	DisplayPort, HDMI - Requires Processor Graphics	DisplayPort, HDMI - Requires Processor Graphics	HDMI, DVI-D - Requires Processor Graphics
Memory Support	4 DIMMs, Dual Channel DDR4-4800 (OC)	2 DIMMs, Dual Channel DDR4-2933 MHz (Max)	2 DIMMs, Dual Channel DDR4-2933 MHz (Max)	2 DIMMs, Dual Channel DDR4-2933 MHz (Max)	2 DIMMs, Dual Channel DDR4-2933 MHz (Max)
Expansion Slots	2x PCIe 3.0 x1 slots	2x PCIe 3.0 x1 slots	1x PCIe 3.0 x1 slot	1x PCIe 3.0 x1 slot	2x PCIe 3.0 x1 slots
Storage	2x M.2 slots, 6x SATA 6Gb/s ports	2x M.2 slots, 6x SATA 6Gb/s ports	2x M.2 slots, 6x SATA 6Gb/s ports	2x M.2 slots, 6x SATA 6Gb/s ports	2x M.2 slots, 4x SATA 6Gb/s ports
Thunderbolt™ 3	-	-	-	-	-
USB 3.2 Gen 2x2 20Gbps	1x USB 3.2 Gen 2x2 20G (1C)	1x USB 3.2 Gen 2x2 20G (1C)	-	-	-
USB 3.2 Gen 2 10Gbps	1x USB 3.2 Gen 2 10G (1A)	-	-	-	-
USB 3.2 Gen 1 5Gbps	7x USB 3.2 Gen 1 5G (6A+1C)	7x USB 3.2 Gen 1 5G (6A+1C)	7x USB 3.2 Gen 1 5G (5A+2C)	7x USB 3.2 Gen 1 5G (5A+2C)	6x USB 3.2 Gen 1 5G (1A)
USB 2.0	6x USB 2.0	6x USB 2.0	6x USB 2.0	6x USB 2.0	6x USB 2.0
LAN	1x Realtek® 8125B 2.5G LAN + 1x Intel® I219V Gigabit LAN	1x Realtek® 8125B 2.5G LAN + 1x Intel® I219V Gigabit LAN	1x Realtek® 8125B 2.5G LAN	1x Realtek® 8125B 2.5G LAN	1x Realtek® RTL8111H Gigabit LAN
Audio	ALC1200	ALC1200	ALC1200	ALC1200	ALC892
Wi-Fi/BT	-	-	Intel® Wi-Fi 6 AX200	-	-
Form Factor	ATX	ATX	M-ATX	M-ATX	M-ATX
Accessory Cards	-	-	-	-	-
<b>Audio</b>					
Audio Feature	Audio Boost	Audio Boost	Audio Boost	Audio Boost	Audio Boost
Nahimic 3 & Voice Boost					
<b>Cooling</b>					
Stacked Fin Array					
Frozr Heatsink Design					
Aluminum Cover / Extended Heatsink	Aluminum Cover	Extended Heatsink	Extended Heatsink	Extended Heatsink	Extended Heatsink
MOSFET Baseplate					
M.2 Shield Frozr	2x	1x	1x	1x	1x
Pump Fan / Smart Fan Control	●/●	●/●	●/●	●/●	●/●
<b>LED</b>					
Mystic Light	●	●	●	●	●
Mystic Light Extension	RGB / Rainbow	RGB / Rainbow	RGB / Rainbow	RGB / Rainbow	RGB / Rainbow
Mystic Light SYNC	●	●	●	●	●
Ambient Link			●		
<b>Performance</b>					
DDR4 Boost / Core Boost	●/●	●/●	●/●	●/●	●/●
Thunderbolt 3					
Lightning USB 20G	●	●			
Front USB Type-C	●		●	●	
Dual CPU Power	8+4 pin				
<b>Protection</b>					
PCI-E Steel Armor / Street Slot	x1 / x1	x2 / x0	x1 / x0	x1 / x0	x1 / x0
Pre-installed I/O Shielding	●	●	●	●	
Chest Plate					
<b>Experience</b>					
Dynamic Dashboard II					
Smart Button					
Dragon Center	●	●	●	●	●
Click BIOS 5	●	●	●	●	●





MSI Z490 TOMAHAWK

MSI Z490 GAMING CARBON WIFI

MSI Z490 GODLIKE

# RELEASE TRUE POWER

## INTEL 400 SERIES MOTHERBOARDS

EXCEPTIONAL POWER DESIGN | PREMIUM THERMAL DESIGN | LATEST CONNECTIVITY

Model Name	Z490-A PRO	B460M PRO-VDH WIFI	B460M-A PRO	B460M PRO	H410M PRO	H410M-A PRO
CPU Support	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors	Supports 10th Gen Intel® Core™ and Pentium® Gold / Celeron® processors
Chipset	Intel® Z490 Chipset	Intel® B460 Chipset	Intel® B460 Chipset	Intel® B460 Chipset	Intel® H410 Chipset	Intel® H410 Chipset
CPU Socket	LGA1200	LGA1200	LGA1200	LGA1200	LGA1200	LGA1200
Graphics Interface	2x PCIe 3.0 x16 slots Support 2-way AMD® CrossFire™ Technology	1x PCIe 3.0 x16 slot	1x PCIe 3.0 x16 slot	1x PCIe 3.0 x16 slot	1x PCIe 3.0 x16 slot	1x PCIe 3.0 x16 slot
Display Interface	DisplayPort, HDMI – Requires Processor Graphics	HDMI, DVI-D, VGA – Requires Processor Graphics	HDMI, DVI-D – Requires Processor Graphics	HDMI, DVI-D, VGA – Requires Processor Graphics	HDMI, DVI, VGA – Requires Processor Graphics	HDMI, DVI – Requires Processor Graphics
Memory Support	4 DIMMs, Dual Channel DDR4-4800 (OC)	4 DIMMs, Dual Channel DDR4-2933 MHz (Max)	2 DIMMs, Dual Channel DDR4-2933 MHz (Max)	2 DIMMs, Dual Channel DDR4-2933 MHz (Max)	2 DIMMs, Dual Channel DDR4-2933 MHz (Max)	2 DIMMs, Dual Channel DDR4-2933 MHz (Max)
Expansion Slots	3x PCIe 3.0 x1 slots	2x PCIe 3.0 x1 slots	2x PCIe 3.0 x1 slots	2x PCIe 3.0 x1 slots	1x PCIe 3.0 x1 slot	1x PCIe 3.0 x1 slot
Storage	2x M.2 slots, 6x SATA 6Gb/s ports	2x M.2 slots, 4x SATA 6Gb/s ports	1x M.2 slot, 6x SATA 6Gb/s ports	1x M.2 slot, 6x SATA 6Gb/s ports	1x M.2 slot, 4x SATA 6Gb/s ports	1x M.2 slot, 4x SATA 6Gb/s ports
Thunderbolt™ 3	-	-	-	-	-	-
USB 3.2 Gen 2x2 20Gbps	-	-	-	-	-	-
USB 3.2 Gen 2 10Gbps	2x USB 3.2 Gen 2 10G (1A+1C)	-	-	-	-	-
USB 3.2 Gen 1 5Gbps	7x USB 3.2 Gen 1 5G (6A+1C)	6x USB 3.2 Gen 1 5G (6A)	6x USB 3.2 Gen 1 5G (6A)	6x USB 3.2 Gen 1 5G (6A)	4x USB 3.2 Gen 1 5G (4A)	4x USB 3.2 Gen 1 5G (4A)
USB 2.0	6x USB 2.0	6x USB 2.0	6x USB 2.0	6x USB 2.0	6x USB 2.0	6x USB 2.0
LAN	1x Realtek® 8125B 2.5G LAN	1x Realtek® RTL8111H Gigabit LAN	1x Realtek® RTL8111H Gigabit LAN	1x Realtek® RTL8111H Gigabit LAN	1x Intel® I219V Gigabit LAN	1x Intel® I219V Gigabit LAN
Audio	ALC892	ALC892	ALC892	ALC892	ALC892	ALC892
Wi-Fi/BT	-	Intel® Wireless-AC 3168 / Bluetooth 4.2	-	-	-	-
Form Factor	ATX	M-ATX	M-ATX	M-ATX	M-ATX	M-ATX
Accessory Cards	-	-	-	-	-	-
<b>Audio</b>						
Audio Feattrue	Audio Boost	Audio Boost	Audio Boost	Audio Boost	Audio Boost	Audio Boost
Nahimic 3 & Voice Boost						
<b>Cooling</b>						
Stacked Fin Array						
Frozr Heatsink Design						
Aluminum Cover / Extended Heatsink	Extended Heatsink					
MOSFET Baseplate						
M.2 Shield Frozr	1x		1x	1x		
Pump Fan / Smart Fan Control	•/•	•/•	•/•	•/•	-/•	-/•
<b>LED</b>						
Mystic Light						
Mystic Light Extension	RGB / Rainbow	RGB / Rainbow		RGB / Rainbow	RGB / Rainbow	
Mystic Light SYNC	•	•	•	•	•	•
Ambient Link						
<b>Performance</b>						
DDR4 Boost / Core Boost	•/•	•/•	•/•	•/•	•/•	•/•
Thunderbolt 3						
Lightning USB 20G						
Front USB Type-C	•					
Dual CPU Power	8+4 pin					
<b>Protection</b>						
PCI-E Steel Armor / Street Slot	x1 / x1	x1 / x0	x1 / x0	x1 / x0	x1 / x0	x1 / x0
Pre-installed I/O Shielding						
Chest Plate						
<b>Experience</b>						
Dynamic Dashboard II						
Smart Button						
Dragon Center	•	•	•	•	•	•
Click BIOS 5	•	•	•	•	•	•