ASUS

ASUS Prime X299-A II Intel® X299 LGA 2066 (Socket R4) ATX

Brand : ASUS

Product name : Prime X299-A II

Product code: 90MB11F0-M0EAY0

- Intel LGA 2066 socket: Ready for the latest Intel® Core™ X-series processors
- AI Overclocking: Quickly optimizes your CPU performance based on the CPU and cooler, achieving results that are extremely close to manual tuning by experts
- Robust power design: 12 IR3555 power stages, ProCool II connectors, alloy chokes and ultra-durable capacitors for stable power delivery
- M.2 heatsink: Ultra-efficient heatsink reduces M.2 SSD temperatures by up to 20° C for unthrottled transfer speeds and enhanced reliability
- Next-gen connectivity: Intel Optane memory ready, Intel® VROC support, dual M.2 support, and USB 3.2 Gen Type-C™

Socket 2066, Intel X299 Chipset, 8 x DIMM DDR4, 8 x SATA, 3 x M.2, Gigabit LAN, Realtek S1220A, ATX

Processor

Processor manufacturer *	Intel
Processor socket *	LGA 2066 (Socket R4)
Compatible processor series *	Intel® Core™ X-series
Maximum number of SMP processors	1
Supported processor sockets	LGA 2066

Memory

Supported memory types *	DDR4-SDRAM
Number of memory slots *	8
Memory slots type	DIMM
Non-ECC	✓
Supported memory clock speeds	2133,2400,2666,2800,2933,3000,3200,3300,3333,3400,3466,3600,3733,3800,3866,4000,4133,4266 MHz
Maximum internal memory *	256 GB
Unbuffered memory	✓

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces *	M.2, SATA III
RAID levels	0, 1, 5, 10

Graphics

Parallel processing technology support *	2-Way SLI, 3-Way CrossFireX, 3-Way SLI, Quad-GPU CrossFireX, Quad-GPU SLI

Internal I/O

USB 2.0 connectors *	2
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2
Number of SATA III connectors *	8
Front panel audio connector	✓
Front panel connector	✓
ATX Power connector (24-pin)	✓
Number of EATX power connectors	2
CPU fan connector	✓
Number of chassis fan connectors	2
Number of COM connectors	1
Thunderbolt headers	1

Rear panel I/O ports

Ethernet LAN (RJ-45) ports *	1
PS/2 ports quantity	1
Headphone outputs	1
Microphone in	✓
S/PDIF out port	✓

Network

Ethernet LAN	✓
Ethernet interface type	Gigabit Ethernet
LAN controller	Intel® I219-V
Wi-Fi *	✗

Features

Motherboard chipset *	Intel® X299
Audio chip	Realtek ALC S1220A
Audio output channels *	7.1 channels
Component for *	PC
Motherboard form factor *	ATX
Motherboard chipset family *	Intel
Cooling type	Passive
Power source type	ATX
Windows operating systems supported	Windows 10 Education x64, Windows 10 Enterprise x64, Windows 10 Home x64, Windows 10 Pro x64, Windows 10 x64
Harmonized System (HS) code	84733020

Expansion slots

PCI Express x1 (Gen 3.x) slots	2
PCI Express x16 (Gen 3.x) slots	3
Number of M.2 (M) slots	3

BIOS

BIOS type *	UEFI AMI
BIOS memory size	128 Mbit
ACPI version	6.1

Rear panel I/O ports

USB 2.0 ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2

BIOS

System Management BIOS (SMBIOS) version	3.1

Processor special features

Intel Extreme Memory Profile (XMP)	✓
Intel® Optane™ Memory Ready	✓

Weight & dimensions

Width	305 mm
Depth	244 mm

Packaging content

Drivers included	✓

Other features

HDD size	2.5/3.5"
Processor lithography	14 nm
Utilities included	✓

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