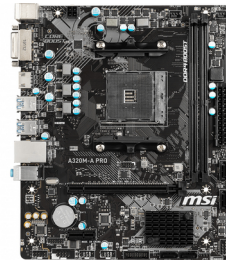


MSI A320M-A PRO placa base AMD A320 Enchufe AM4 Micro ATX

Marca : MSI

Código del producto: A320M-A PRO

Nombre del producto : A320M-A PRO



MSI A320M-A PRO. Fabricante de procesador: AMD, Socket de procesador: Enchufe AM4, Procesador compatible: AMD A, AMD Athlon, AMD Athlon™ X4, AMD Ryzen™ 3, 2nd Generation AMD Ryzen™ 3, 3rd Generation.... tipos de memoria compatibles: DDR4-SDRAM, Memoria interna máxima: 32 GB, Tipo de ranuras de memoria: DIMM. Interfaces de disco de almacenamiento soportados: SATA III, Niveles RAID: 0, 1, 10. Memoria máxima de adaptador de gráficos: 2048 MB, Máxima resolución: 4096 x 2160 Pixeles. Tipo de interfaz ethernet: Gigabit Ethernet, Controlador LAN: Realtek 8111H

Procesador		Panel trasero Puertos de I/O (input/output)	
Fabricante de procesador *	AMD	Cantidad de puertos tipo A USB 3.2 Gen 1 (3.1 Gen 1) *	4
Socket de procesador *	Enchufe AM4	Puertos Ethernet LAN (RJ-45) *	1
Procesador compatible *	AMD A, AMD Athlon, AMD Athlon™ X4, AMD Ryzen™ 3, 2nd Generation AMD Ryzen™ 3, 3rd Generation AMD Ryzen™ 3, AMD Ryzen™ 5, 2nd Generation AMD Ryzen™ 5, 3rd Generation AMD Ryzen 5, AMD Ryzen™ 7, 2nd Generation AMD Ryzen™ 7, 3rd Generation AMD Ryzen™ 7, 3rd Generation AMD Ryzen™ 9	Cantidad de puertos PS/2	2
		Número de puertos HDMI *	1
Máx. número de procesador SMP	1	Versión HDMI	1.4
Memoria		Cantidad de puertos DVI-D *	1
tipos de memoria compatibles *	DDR4-SDRAM	Red	
Número de ranuras de memoria *	2	Ethernet	✓
Tipo de ranuras de memoria	DIMM	Tipo de interfaz ethernet	Gigabit Ethernet
Canales de memoria	Doble canal	Controlador LAN	Realtek 8111H
ECC	✓	Wifi *	✗
No ECC	✓	Características	
Velocidades de reloj de memoria soportadas	1866,2133,2400,2667,2933,3200 MHz	Chipset de tarjeta madre *	AMD A320
Memoria interna máxima *	32 GB	Chip de sonido	Realtek ALC892
Controladores de almacenamiento		Canales de salida de audio *	7.1 canales
Interfaces de disco de almacenamiento soportados *	SATA III	Monitoreo de la salud de PC	CPU, Ventilador, Temperatura
Niveles RAID	0, 1, 10	Componente para *	PC
Gráficos		Factor de forma de la tarjeta madre *	Micro ATX
Memoria máxima de adaptador de gráficos	2048 MB	Familia del chipset *	AMD
Soporte para proceso paralelo *	No compatible	Número de orificios de montaje	6
Máxima resolución	4096 x 2160 Pixeles	Sistemas operativos Windows soportados	
Versión DirectX	12.0	Windows 10 Education x64, Windows 10 Enterprise x64, Windows 10 Home x64, Windows 10 Pro x64, Windows 10 x64, Windows 7 Enterprise x64, Windows 7 Home Basic x64, Windows 7 Home Premium x64, Windows 7 Professional x64, Windows 7 Starter x64, Windows 7 Ultimate x64, Windows 7 x64	
Interno I/O		Ranuras de expansión	
USB 2.0, conectores *	2	PCI Express x1 (Gen 2.x) ranuras	1
Conectores USB 3.2 Gen 1 (3.1 Gen 1) *	1	PCI Express x16 Gen (3.x) ranuras	1
Número de conectores SATA III *	4	BIOS	
		Tipos de BIOS *	UEFI AMI
		Tamaño de memoria de BIOS	128 MB/s

Interno I/O		BIOS	
Conector de audio en panel frontal	✓	Versión ACPI	6.1
Conector de panel delantero	✓	Jumper Clear CMOS	✓
Conector de potencia ATX (24 pines)	✓	Versión de BIOS de administración del sistema (SMBIOS)	2.8
Conector de ventilador CPU	✓	Datos de logística	
Número de conectores a ventilador de chasis	1	Código de Sistema de Armonización (SA)	84733020
Conector de intrusión a chasis	✓	Peso y dimensiones	
Conector TPM	✓	Ancho	226 mm
Cabecera de puerto serie	1	Profundidad	187 mm
Conector eléctrico de 12 V	✓	Contenido del empaque	
Panel trasero Puertos de I/O (input/output)		Cables incluidos	SATA
Cantidad de puertos USB 2.0 *	2	Controladores incluidos	✓
		Otras características	
		Guía de instalación rápida	✓



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