Feature	RAM	ROM
Full form	Random Access Memory	Read-Only Memory
Volatility	Volatile memory	Non-volatile memory
Read/Write	Read and write operations	Read-only operations
Data Storage	Temporary storage for data and instructions	Permanent storage for firmware and software instructions
Data Retention	Requires power to retain data	Data retention even without power
Types	Different types (e.g., DRAM, SRAM)	Different types (e.g., PROM, EPROM, EEPROM)
Usage	Used for active program execution and data storage	Used for storing firmware, boot loaders, and software instructions
Modifiability	Can be modified or overwritten	Typically pre-programmed during manufacturing
Size	Generally larger capacities	Smaller capacities compared to RAM
Speed	Faster access and data transfer speeds	Slower access and data transfer speeds
Examples	DDR4, DDR3, SRAM	PROM, EPROM, EEPROM

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