

Basic MBR Disk

Master Boot Record	Master Boot Code	
	1st Partition Table Entry	Pa
r Bo	2nd Partition Table Entry	rtitio
ot Re	3rd Partition Table Entry	Partition Table
ecor	4th Partition Table Entry	ble
۵	Øx55 AA	
	Primary Partition C:	
	Primary Partition E:	
	Primary Partition F:	
	Local Drive G:	Pa
	Local Drive H:	extended Parition
	Local Drive n	ے م

Basic GPT Disk

Master Boot Code		
1st Partition Table Entry	Prof	
2nd Partition Table Entry	Protective MBR	
3rd Partition Table Entry	ve N	
4th Partition Table Entry	/BR	
Øx55 AA		
Primary GUID Partition Table Entry		
GUID Partition Entry 1	_و	
GUID Partition Entry 2	D Prin	
GUID Partition Entry <i>n</i>	Primary D Partition htry Table	
GUID Partition Entry 128	ion	
Primary Partition C:		
Primary Partition E:		
Primary Partition F:		
GUID Partition Entry 1	е П	
GUID Partition Entry 2	Backup JID Partiti Entry Tabl	
GUID Partition Entry n	Tab Kup	
GUID Partition Entry 128	e on	
Backup GUID Partition Table Header		

Boot Partitions

Partitioning a disk is the process of dividing a hard drive's storage space into smaller segments. There are two types of bootable partitions – Master Boot Record (MBR) Disks, and GUID Partition Table (GPT) Disks.

The two types of firmware used by modern computers are Basic Input/Output System (BIOS) and Unified Extensible Firmware Interface (UEFI). BIOS requires MBR Partition structure while UEFI requires GPT partition structure. UEFI also requires that the version of Windows must match the PC architecture, unless there is legacy BIOS support. For example, UEFI only supports booting a 32-bit version of Windows if the PC architecture is also 32-bit. Otherwise, 32-bit legacy BIOS mode is required to boot a 32-bit version of Windows on 64-bit PC architecture.

By default, all UEFI-enabled 64-bit systems use GPT partitioning. These 64-bit versions of Windows read, write, and also boot from GPT disks. They can read and write MBR disks, but cannot boot from MBR disks. Both 32-bit and 64-bit Windows operating systems support GPT disks for data on BIOS enabled systems.