

UTP Categories and Speeds

Category	Rated For	MHz
Cat 5	100 Mbps	100 MHz
Cat 5e	100 Mbps	100 MHz
Cat 5e	1 Gbps	350 MHz
Cat 6	1 Gbps	250 MHz
Cat 6a	10 Gbps	500 MHz
Cat 7	1 Gbps	600 MHz
Cat 7a	10 Gbps	1000 MHz

DDR Pinouts

DDR Standard	Number of Pins
DDR1	184 pins
DDR2	240 pins
DDR3	240 pins
DDR4	288 pins

Comparison of SATA 3.0 and 3.2

SATA Standard	Maximum Data Transfer Rate	Transfer Rate
Revision 3.0	6 Gb/s	600 MB/s
Revision 3.2	16 Gb/s	1969 MB/s

Common Protocols and Ports

Protocol	Port	TCP/UDP
IMAP	143	TCP
LDAP	389	TCP or UDP
SMB	445	TCP
LDAPS	636	TCP
IMAPS	993	TCP
RDP	3389	TCP or UDP

USB Versions

USB Version	Name	Data Transfer Rate
USB 1.0		1.5 Mbps
USB 1.1		12 Mbps
USB 2.0	High-Speed	480 Mbps
USB 3.0	SuperSpeed	5 Gbps
USB 3.1	SuperSpeed+	10 Gbps
USB 3.2 (USB-C)	SuperSpeed+	10/20 Gbps

Thunderbolt Versions

Version	Data Transfer Rate	Connector Type	PCI Express Version Required
1	10 Gbps	DisplayPort	Version 2.0
2	20 Gbps	DisplayPort	Version 2.0
3	40 Gbps	USB Type-C	Version 3.0

DVD Technologies

Technology	Sides	Total Layers	Capacity
DVD-5	1	1	4.7 GB
DVD-9	1	2	8.5 GB
DVD-10	2	2	9.4 GB
DVD-14	2	3	13.2 GB
DVD-18	2	4	17 GB



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