

### 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
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

Vers-ion	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

