

/Mask	Mask	Zeroes	Hosts	Subnets
16	255.255.0.0	16	65534	1
17	255.255.128.0	15	32766	2
18	255.255.192.0	14	16382	4
19	255.255.224.0	13	8190	8
20	255.255.240.0	12	4094	16
21	255.255.248.0	11	2046	32
22	255.255.252.0	10	1022	64
23	255.255.254.0	9	510	128
24	255.255.255.0	8	254	256
25	255.255.255.128	7	126	512
26	255.255.255.192	6	62	1024
27	255.255.255.224	5	30	2048
28	255.255.255.240	4	14	4096
29	255.255.255.248	3	6	8192
30	255.255.255.252	2	2	16384

Application	BGP DHCP DNS FTP HTTP IMAP LDAP MGCP MQTT NNTP NTP POP ONC/RPC RTP RTSP RIP SIP SMTP SNMP SSH Telnet TLS/SSL XMPP
Transport	TCP UDP DCCP SCTP RSVP
Internet	IP IPv4 IPv6 ICMP ICMPv6 ECN IGMP IPsec
Link	ARP NDP OSPF Tunnels L2TP PPP MAC Ethernet DSL ISDN FDDI

IP Address Classes

Class	First Bits	First Byte Values	Network ID Bits	Host ID Bits	Number of Networks	Number of Hosts
A	0	1 - 126	7	24	126	16,777,214
B	10	128 -191	14	16	16,384	65,534
C	110	192 - 223	21	8	2,097,152	254

Private IP Address Range – **Special purpose**

Class	Network Address
A	10.0.0.0 through 10.255.255.255
B	172.16.0.0 through 172.31.255.255
C	192.168.0.0 through 192.168.255.255
	Multicasting: 224.0.0.0-239.255.255.255
	Research: 240.0.0.0-255.255.255.255
	Loopback: 127.0.0.0-127.255.255.255

NOT PRIVATE