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## IP Subnet Calculator

This calculator returns a variety of information regarding Internet Protocol version 4 (IPv4) and IPv6 subnets including possible network addresses, usable host ranges, subnet mask, and IP class, among others. IPv4 Subnet Calculator

147.28.196.163

147.28.196.160

147.28.196.161 - 147.28.196.174

## Result

## IP Address:

Network Address:

147.28.196.0

147.28.196.16

Usable Host IP Range:

Network Address	Usable	Host Range	Broadcast Address:	
All 16 of the Possible /28 Networks for 147.28.196.*				
6to4 Prefix:		2002:931c.c4a3::/48		
IPv4 Mapped Address:		::ffff:931c.c4a3		
in-addr.arpa:		163.196.28.147.in-addr.arpa		
Hex ID:		0x931cc4a3		
Integer ID:		2468136099		
Binary ID:		10010011000111001100010010100011		
Short:		147.28.196.163 /28		
IP Type:		Public		
CIDR Notation:		/28		
IP Class:		С		
Binary Subnet Mask:		11111111.11111111.11111111.11110000		
Wildcard Mask:		0.0.0.15		
Subnet Mask:		255.255.255.240		
Number of Usable Hosts:		14		
Total Number of Hosts:		16		
Broadcast Address:		147.28.196.175		

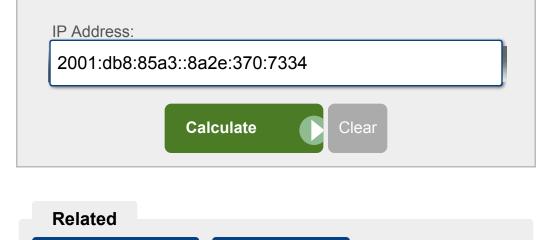
147.28.196.1 - 147.28.196.14

147.28.196.17 - 147.28.196.30

147.28.196.15

147.28.196.31

147.28.196.32	147.28.196.33 - 147.28.196.46	147.28.196.47		
147.28.196.48	147.28.196.49 - 147.28.196.62	147.28.196.63		
147.28.196.64	147.28.196.65 - 147.28.196.78	147.28.196.79		
147.28.196.80	147.28.196.81 - 147.28.196.94	147.28.196.95		
147.28.196.96	147.28.196.97 - 147.28.196.110	147.28.196.111		
147.28.196.112	147.28.196.113 - 147.28.196.126	147.28.196.127		
147.28.196.128	147.28.196.129 - 147.28.196.142	147.28.196.143		
147.28.196.144	147.28.196.145 - 147.28.196.158	147.28.196.159		
147.28.196.160	147.28.196.161 - 147.28.196.174	147.28.196.175		
147.28.196.176	147.28.196.177 - 147.28.196.190	147.28.196.191		
147.28.196.192	147.28.196.193 - 147.28.196.206	147.28.196.207		
147.28.196.208	147.28.196.209 - 147.28.196.222	147.28.196.223		
147.28.196.224	147.28.196.225 - 147.28.196.238	147.28.196.239		
147.28.196.240	147.28.196.241 - 147.28.196.254	147.28.196.255		
Network Class Any A B C				
Subnet	255.255.255.240 /2	255.255.255.240 /28 \$		
IP Addr	ess 147.28.196.163	147.28.196.163		



**Binary Calculator** 

A subnet is a division of an IP network (internet protocol suite), where an IP network is a set of communications protocols used on the Internet and

subnetting, and routers are devices that allow traffic exchange between subnetworks, serving as a physical boundary. IPv4 is the most common network addressing architecture used, though the use of IPv6 has been

An IP address is comprised of a network number (routing prefix) and a rest field (host identifier). A rest field is an identifier that is specific to a given host or network interface. A routing prefix is often expressed using Classless Inter-Domain Routing (CIDR) notation for both IPv4 and IPv6. CIDR is a method used to create unique identifiers for networks, as well as individual devices. For IPv4, networks can also be characterized using a subnet mask, which is sometimes expressed in dot-decimal notation, as shown in the "Subnet" field in the calculator. All hosts on a subnetwork have the same network prefix, unlike the host identifier, which is a unique

Prior to the introduction of CIDR, IPv4 network prefixes could be directly obtained from the IP address based on the class (A, B, or C, which vary based on the range of IP addresses they include) of the address and the network mask. Since the introduction of CIDRs, however, assigning an IP address to a network interface requires both an address and its network

Below is a table providing typical subnets for IPv4.

128.0.0.0

192.0.0.0

255.240.0.0

**Network mask** 

Prefix size

/1

/2

/12

/26

/27

/28 /29

/30

/31

/32

Calculate

Clear

 $\Diamond$ 

other similar networks. It is commonly known as TCP/IP (Transmission Control Protocol/Internet Protocol). The act of dividing a network into at least two separate networks is called

growing since 2006.

mask.

Bandwidth Calculator

IPv6 Subnet Calculator

Prefix Length:

/64

local identification. In IPv4, these subnet masks are used to differentiate the network number and host identifier. In IPv6, the network prefix performs a similar function as the subnet mask in IPv4, with the prefix length representing the number of bits in the address.

**Usable hosts per subnet** 

2,147,483,646

1,073,741,822

1,048,574

62 30

14

6

2

0

0

/3 224.0.0.0 536,870,910 /4 268,435,454 240.0.0.0 /5 248.0.0.0 134,217,726 /6 252.0.0.0 67,108,862 /7 254.0.0.0 33,554,430 Class A /8 255.0.0.0 16,777,214 /9 255.128.0.0 8,388,606 /10 255.192.0.0 4,194,302 /11 255.224.0.0 2,097,150

/13 255.248.0.0 524,286 /14 255.252.0.0 262,142 /15 255.254.0.0 131,070 Class B /16 255.255.0.0 65,534 /17 255.255.128.0 32,766 /18 255.255.192.0 16,382 /19 255.255.224.0 8,190 4,094 /20 255.255.240.0 /21 255.255.248.0 2,046 /22 255.255.252.0 1,022 /23 255.255.254.0 510 Class C /24 255.255.255.0 254 255.255.255.128 /25 126

255.255.255.192

255.255.255.224

255.255.255.240

255.255.255.248

255.255.252

255.255.255.254

255.255.255.255

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