

Prefix bit pattern first 16 bits	Prefix	Allocation
0 0 0 0 0 0 0 0	0000::/8	IETF reserved (RFC 4291)
	::/96	IPv4 compatible (Deprecated - RFC 4291)
	::/128	Unspecified address (RFC 4291)
	::1/128	Loopback address (RFC 4291)
	::FFFF:0:0/96	IPv4 mapped (RFC 4291)
	64:FF9B::/96	IPv4-IPV6 translation (RFC 6052)
	0 0 0 0 0 0 0 1	0100::/8
	100::/64	Discard-only (RFC 6666)
	0200::/7	OSI NSAP-mapped (Deprecated - RFC 4048)
0 0 0 0 0 1	0400::/6	IETF reserved (RFC 4291)
0 0 0 0 1	0800::/5	IETF reserved (RFC 4291)
0 0 0 1	1000::/4	IETF reserved (RFC 4291)
0 0 1	2000::/3	Global Unicast (RFC 4291)
	2001::/23	IETF protocol assignments (RFC 2928)
	2001::/32	TEREDO (RFC 4380)
	2001:2::/48	Benchmarking (RFC 5180)
	2001:db8::/32	Documentation (RFC 3849)
	2001:10::/28	ORCHID (RFC 4843)
	2002::/16	6to4 (RFC 5180)
	3ffe::/16	6bone (Deprecated - RFC 3701)
0 1 0	4000::/3	IETF reserved (RFC 4291)
	5F00::/8	6bone (Deprecated - RFC 3701)
	6000::/3	IETF reserved (RFC 4291)
1 0 0	8000::/3	IETF reserved (RFC 4291)
1 0 1	A000::/3	IETF reserved (RFC 4291)
1 1 0	C000::/3	IETF reserved (RFC 4291)
1 1 1 0	E000::/4	IETF reserved (RFC 4291)
1 1 1 1 0	F000::/5	IETF reserved (RFC 4291)
1 1 1 1 1 0	F800::/6	IETF reserved (RFC 4291)
1 1 1 1 1 1 0	FC00::/7	Unique local unicast (RFC 4193)
	FC00::/8	Globally managed unique local unicast (RFC 4193)
	FD00::/8	Locally assigned unique local unicast (RFC 4193)
1 1 1 1 1 1 1 0 0	FE00::/9	IETF reserved (RFC 4291)
1 1 1 1 1 1 1 0 1 0	FE80::/10	Link local unicast (RFC 4291)
1 1 1 1 1 1 1 0 1 1	FEC0::/10	Site local unicast (Deprecated - RFC 3879)
1 1 1 1 1 1 1 1	FF00::/8	Multicast (RFC 4291)
	FF00::/12	Multicast assigned addresses (RFC 2375)

IPv6 allocation chart

Version 1.0

Compiled by Tom Lijnse, Layer Zero Training & Consultancy based on:

<http://www.iana.org/assignments/ipv6-address-space/ipv6-address-space.xhtml>

<http://www.iana.org/assignments/iana-ipv6-special-registry/iana-ipv6-special-registry.xhtml>

supplemented with information from various RFCs