



 MB053...  
**IctToolBox**

# Subnet mask

	Addresses	Hosts	Netmask	Amount of a Class C
<b>/30</b>	4	2	255.255.255.252	1/64
<b>/29</b>	8	6	255.255.255.248	1/32
<b>/28</b>	16	14	255.255.255.240	1/16
<b>/27</b>	32	30	255.255.255.224	1/8
<b>/26</b>	64	62	255.255.255.192	1/4
<b>/25</b>	128	126	255.255.255.128	1/2
<b>/24</b>	256	254	255.255.255.0	1
<b>/23</b>	512	510	255.255.254.0	2
<b>/22</b>	1024	1022	255.255.252.0	4
<b>/21</b>	2048	2046	255.255.248.0	8
<b>/20</b>	4096	4094	255.255.240.0	16
<b>/19</b>	8192	8190	255.255.224.0	32
<b>/18</b>	16384	16382	255.255.192.0	64
<b>/17</b>	32768	32766	255.255.128.0	128
<b>/16</b>	65536	65534	255.255.0.0	256

## Guide to sub-class C blocks

### **/25 -- 2 Subnets -- 126 Hosts/Subnet**

Network #	IP Range	Broadcast
<b>.0</b>	.1-.126	.127
<b>.128</b>	.129-.254	.255

### **/26 -- 4 Subnets -- 62 Hosts/Subnet**

Network #	IP Range	Broadcast
<b>.0</b>	.1-.62	.63
<b>.64</b>	.65-.126	.127
<b>.128</b>	.129-.190	.191
<b>.192</b>	.193-.254	.255

**/27 -- 8 Subnets -- 30 Hosts/Subnet**

Network #	IP Range	Broadcast
.0	.1-.30	.31
.32	.33-.62	.63
.64	.65-.94	.95
.96	.97-.126	.127
.128	.129-.158	.159
.160	.161-.190	.191
.192	.193-.222	.223
.224	.225-.254	.255

**/28 -- 16 Subnets -- 14 Hosts/Subnet**

Network #	IP Range	Broadcast
.0	.1-.14	.15
.16	.17-.30	.31
.32	.33-.46	.47
.48	.49-.62	.63
.64	.65-.78	.79
.80	.81-.94	.95
.96	.97-.110	.111
.112	.113-.126	.127
.128	.129-.142	.143
.144	.145-.158	.159
.160	.161-.174	.175
.176	.177-.190	.191
.192	.193-.206	.207
.208	.209-.222	.223
.224	.225-.238	.239
.240	.241-.254	.255

## /29 -- 32 Subnets -- 6 Hosts/Subnet

Network #	IP Range	Broadcast
.0	.1-.6	.7
.8	.9-.14	.15
.16	.17-.22	.23
.24	.25-.30	.31
.32	.33-.38	.39
.40	.41-.46	.47
.48	.49-.54	.55
.56	.57-.62	.63
.64	.65-.70	.71
.72	.73-.78	.79
.80	.81-.86	.87
.88	.89-.94	.95
.96	.97-.102	.103
.104	.105-.110	.111
.112	.113-.118	.119
.120	.121-.126	.127
.128	.129-.134	.135
.136	.137-.142	.143
.144	.145-.150	.151
.152	.153-.158	.159
.160	.161-.166	.167
.168	.169-.174	.175
.176	.177-.182	.183
.184	.185-.190	.191
.192	.193-.198	.199
.200	.201-.206	.207
.208	.209-.214	.215
.216	.217-.222	.223
.224	.225-.230	.231
.232	.233-.238	.239
.240	.241-.246	.247
.248	.249-.2.13554	.255

### /30 -- 64 Subnets -- 2 Hosts/Subnet

Network #	IP Range	Broadcast			
<b>.0</b>	.1-.2	.3	<b>.128</b>	.128-.130	.131
<b>.4</b>	.5-.6	.7	<b>.132</b>	.133-.134	.135
<b>.8</b>	.9-.10	.11	<b>.136</b>	.137-.138	.139
<b>.12</b>	.13-.14	.15	<b>.140</b>	.141-.142	.143
<b>.16</b>	.17-.18	.19	<b>.144</b>	.145-.146	.147
<b>.20</b>	.21-.22	.23	<b>.148</b>	.149-.150	.151
<b>.24</b>	.25-.26	.27	<b>.152</b>	.153-.154	.155
<b>.28</b>	.29-.30	.31	<b>.156</b>	.157-.158	.159
<b>.32</b>	.33-.34	.35	<b>.160</b>	.161-.162	.163
<b>.36</b>	.37-.38	.39	<b>.164</b>	.165-.166	.167
<b>.40</b>	.41-.42	.43	<b>.168</b>	.169-.170	.171
<b>.44</b>	.45-.46	.47	<b>.172</b>	.173-.174	.175
<b>.48</b>	.49-.50	.51	<b>.176</b>	.177-.178	.179
<b>.52</b>	.53-.54	.55	<b>.180</b>	.181-.182	.183
<b>.56</b>	.57-.58	.59	<b>.184</b>	.185-.186	.187
<b>.60</b>	.61-.62	.63	<b>.188</b>	.189-.190	.191
<b>.64</b>	.65-.66	.67	<b>.192</b>	.193-.194	.195
<b>.68</b>	.69-.70	.71	<b>.196</b>	.197-.198	.199
<b>.72</b>	.73-.74	.75	<b>.200</b>	.201-.202	.203
<b>.76</b>	.77-.78	.79	<b>.204</b>	.205-.206	.207
<b>.80</b>	.81-.82	.83	<b>.208</b>	.209-.210	.211
<b>.84</b>	.85-.86	.87	<b>.212</b>	.213-.214	.215
<b>.88</b>	.89-.90	.91	<b>.216</b>	.217-.218	.219
<b>.92</b>	.93-.94	.95	<b>.220</b>	.221-.222	.223
<b>.96</b>	.97-.98	.99	<b>.224</b>	.225-.226	.227
<b>.100</b>	.101-.102	.103	<b>.228</b>	.229-.230	.231
<b>.104</b>	.105-.106	.107	<b>.232</b>	.233-.234	.235
<b>.108</b>	.109-.110	.111	<b>.236</b>	.237-.238	.239
<b>.112</b>	.113-.114	.115	<b>.240</b>	.241-.242	.243
<b>.116</b>	.117-.118	.119	<b>.244</b>	.245-.246	.247
<b>.120</b>	.121-.122	.123	<b>.248</b>	.249-.250	.251
<b>.124</b>	.125-.126	.127	<b>.252</b>	.253-.254	.255