

Calculating QAM Bandwidth Gains

Multiplier	Scheme	Number of Bits	Bits per Symbol	Symbol Example
1x	On-Off Keying	2^1	1	0
2x	QPSK	2^2	2	01
4x	16 QAM	2^3	4	0101
5x	32 QAM	2^4	5	01010
6x	64 QAM	2^5	6	010101
7x	128 QAM	2^6	7	0101010
8x	256 QAM	2^7	8	01010101
9x	512 QAM	2^8	9	010101010
10x	1024 QAM	2^9	10	0101010101