

Table 1 Silicon Comparisons for Various Filter Banks

Filter Bank Type	No. of Bins	Bin Spacing (kHz)	Logic (LUT's)	RAM (Bits)	18 Bit Multipliers
Stacked DDC	256	400	317,498	436,224	N/A
	512	200	650,114	876,544	N/A
	1024	100	1,336,754	1,761,280	N/A
Polyphase DFT (Radix 2)	256	400	8,070	4,608	30
	512	200	9,169	4,793	34
	1024	100	10,341	5,345	42
PFT (Radix2)	256	400	27,930	3,840	N/A
	512	200	32,270	6,529	N/A
	1024	100	36,610	10,625	N/A