

TABLE 1—SIGNALTAP PRIMARY-MODE LOGIC-ELEMENT USAGE

Channels	Apex 20K logic elements used*
One	136
Two	144
Four	160
Eight	192
16	256
32	384
64	640
128	1152

*Preliminary estimates

TABLE 2—APEX 20K LOGIC-ELEMENT RESOURCES

Device	Total logic elements
EP20K100	4160
EP20K100E	4160
EP20K160E	6400
EP20K200	8320
EP20K200E	8320
EP20K300E	11,520
EP20K400	16,640
EP20K400E	16,640
EP20K600E	24,320
EP20K1000E	42,240

TABLE 3—SIGNALTAP PRIMARY-MODE EMBEDDED-SYSTEM-BLOCK USAGE

Channels	Memory depth: samples				
	128	256	512	1024	2048
One					One
Two				One	Two
Four			One	Two	Four
Eight		One	Two	Four	Eight
16	One	Two	Four	Eight	16
32	Two	Four	Eight	16	32
64	Four	Eight	16	32	64
128	Eight	16	32	64	128

Embedded-system blocks required

TABLE 4—APEX 20K EMBEDDED-SYSTEM-BLOCK RESOURCES

Device	Embedded-system blocks
EP20K100	26
EP20K100E	26
EP20K160E	40
EP20K200	52
EP20K200E	52
EP20K300E	72
EP20K400	104
EP20K400E	104
EP20K600E	152
EP20K1000E	264