

TABLE 2 PERFORMANCE REQUIREMENTS FOR REPRESENTATIVE HD APPLICATIONS

HD encode application	Key priorities	2006 technology	Memory requirements	Video bit rate	Typical display format	Typical codec
Broadcast HDTV	High quality for high-action sports	Tens of 1-GHz DSPs and FPGAs	Multiple gigabytes	10 to 20 Mbps	1080i60	MPEG-2, H.264 High Profile
Videoconferencing	Low latency, best resolution for available bandwidth	Multiple 720-MHz DSPs	Hundreds of megabytes	More than 1 Mbps	720p30	H.264 Baseline Profile
Digital still camera	Low-complexity quick printing from video	Single-chip, 450-MHz, low-power system on chip	32 to 64 Mbytes	4 to 8 Mbps	720p30	MPEG-4 (part 2) Simple Profile