

Key Specifications of the MB86H55 and MB86H56 CODECs

Video	Profile	MB86H55	H.264 high profile /Level 4.0 half-duplex CODEC
		MB86H56	H.264 high profile /Level 4.2* ¹ half-duplex CODEC
	Resolution	1920x1080x60p/50p (MB86H56 only), 1920x1080x60i/50i/30p/24p, 1440x1080x60i/50i/30p/24p, 1280x720x60p/50p, 720x480x60i, 720x576x50i Up/Down scaler embedded	
	Bit-Rate	MB86H55	24Mbps. (max.)
		MB86H56	30Mbps. (max.)
Interface	SMPTE274M/SMPTE296M-2001, ITU-R BT.656, External synchronous		
Audio	Formats	Dolby [®] Digital (AC-3)* ² , MPEG-2/4 AAC(LC profile), MPEG-1 Audio Layer2, Linear PCM	
	Channels	Max. 5.1ch* ³	
	Interface	I ² S, S/PDIF	
System	Formats	ISO/IEC13818-1+Amd3 (MPEG-2 TS), Video/Audio ES output	
	Interface	8-bit parallel, Serial, PCI	
Host Interface		General purpose 16-bit parallel, Serial, PCI	
Peripheral I/O		SPI	
Input Clock Frequency		27MHz	
Operating Frequency	MB86H55	108MHz, (internal memory interface only, 135MHz)	
	MB86H56	189MHz, (internal memory interface only, 189MHz)	
Power Consumption (including memory)	MB86H55	500mW (typ., 1.2V 1920x1080x60i encoding)	
	MB86H56	850mW (typ., 1.2V 1920x1080x60p encoding)	
Package	FBGA 650-pin 15mm x 15mm SiP (ball pitch 0.5mm)		
Memory	512Mb FCRAMx1		
Process Technology	65nm		

Notes: *1 Support up to a maximum of 30Mbps bit rate. *2 Dolby is a registered trademark of Dolby Laboratories.

*3 Number of channels depends on audio format.