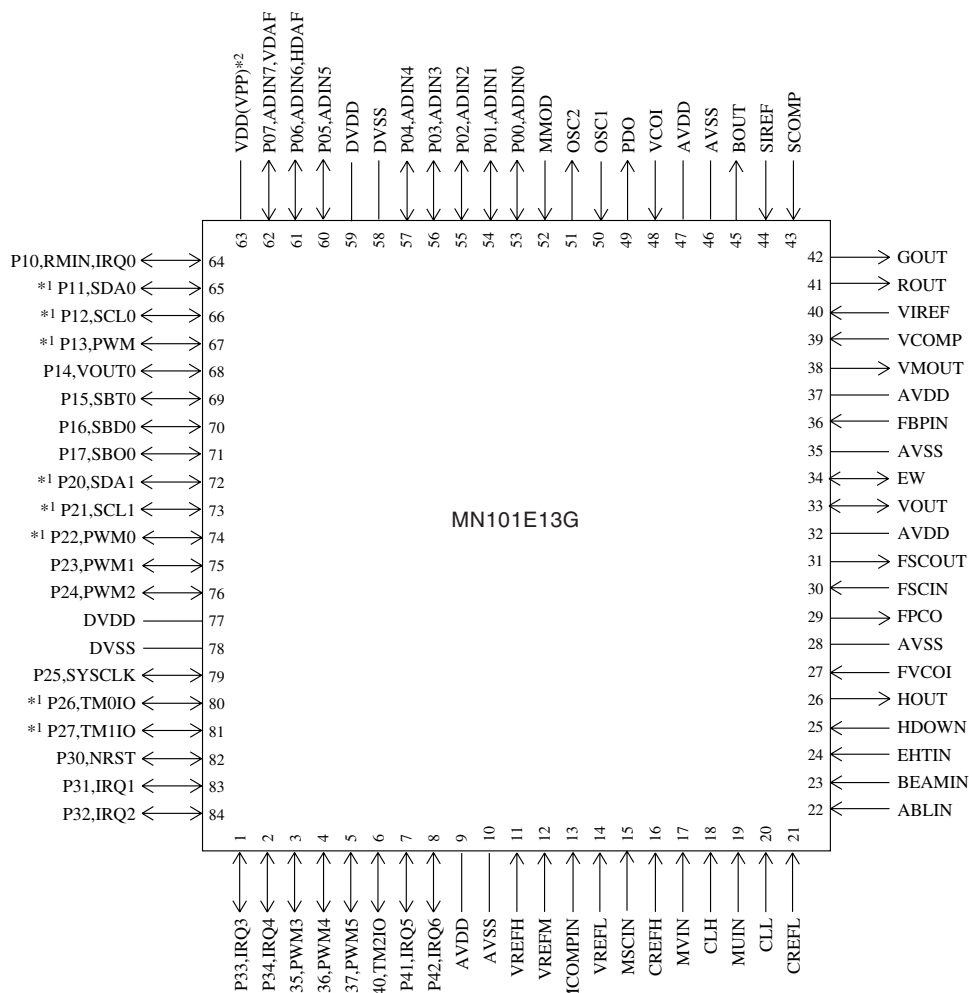


□ MN101E13G

Type	MN101E13G [ES (Engineering sample available)]		
ROM (×16-bit)	128 K		
RAM (×16-bit)	4 K		
Package	QFP084-P-1818E *Lead-free		
Minimum Instruction Execution Time	100 ns (at 3.135 V to 3.465 V, normal-mode)		
Interrupts	External (7 lines) Internal (13 lines) : Timer × 4, A/D × 1, RESET × 1, OSD × 1, Serial × 2, I ² C × 1, Caption × 1, Remote control × 1, HSYNC × 1, VSYNC × 1		
Timer Counter	8-bit timer × 4 Watchdog timer: Time-out period is selectable.		
Serial Interface	I ² C × 1: for multimaster mode, bus line (output) has 2 systems Sync serial / UART × 1		
Caption/Teletext Decoder	• Built-in sync separator × 1		
I/O Pins	I/O	35	• Common use
A/D Inputs	10-bit × 8-ch. (with S/H)		
PWM	8-bit × 6-ch.		
Special Ports	Remote control reception		
CRTC	1-layer display (graphics, characters, splits)		
Notes	Remote control input discriminant circuit built-in, build-in NTSC video signal processing circuit, built-in 3-line comb filter PinP available		

Pin Assignment



QFP084-P-1818E *Lead-free

*1: 5V dielectric Nch open drain output pin

*2: Mask ROM=VDD, Flash Memory built-in type=VPP

Support Tool

In-circuit Emulator	PX-PAC101E02-4W9J	
Flash Memory Built-in Type	Type	MN101EF13G [ES (Engineering Sample) available]
	ROM (× 8-bit)	128 K
	RAM (× 8-bit)	4 K
	Minimum instruction execution time	100 ns
	Package	QFP084-P-1818E *Lead-free

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