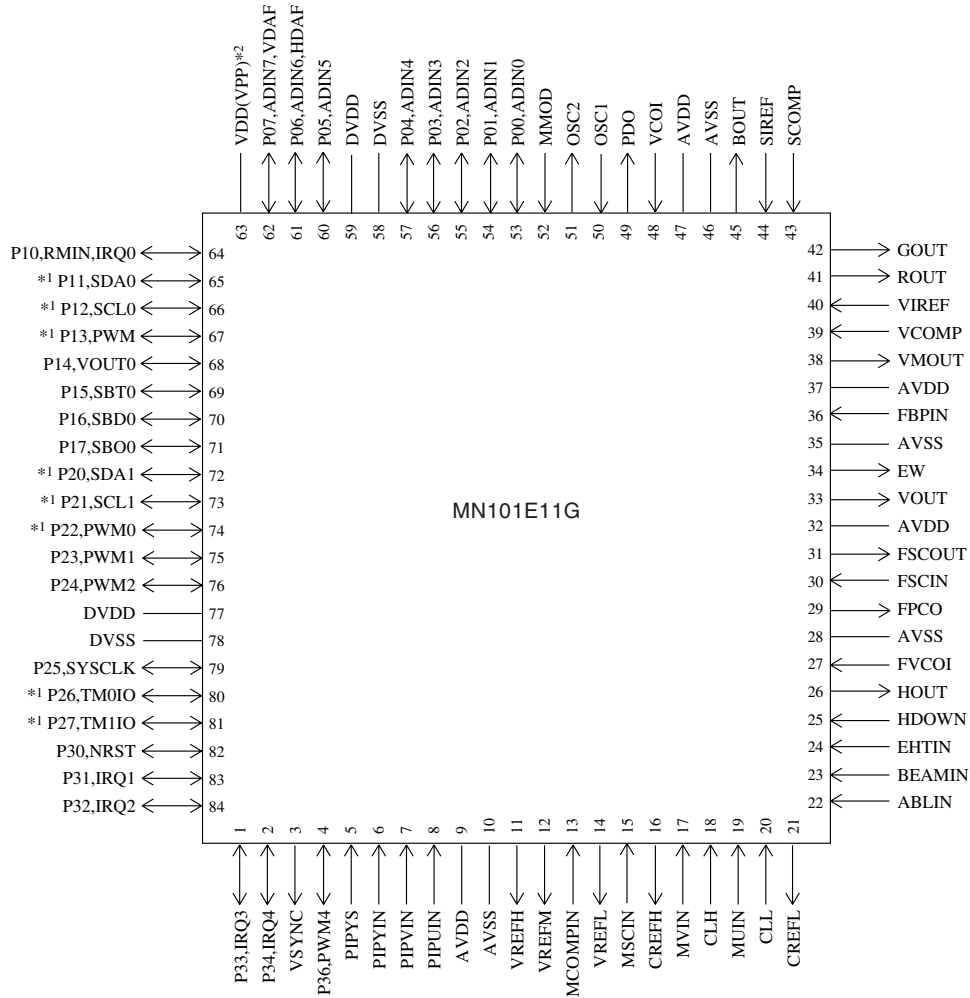


□ MN101E11G

Type	MN101E11G
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 (5 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 30 • Common use
A/D Inputs	10-bit × 8-ch. (with S/H)
PWM	8-bit × 4-ch. , 14-bit × 1-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	MN101EF03G [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