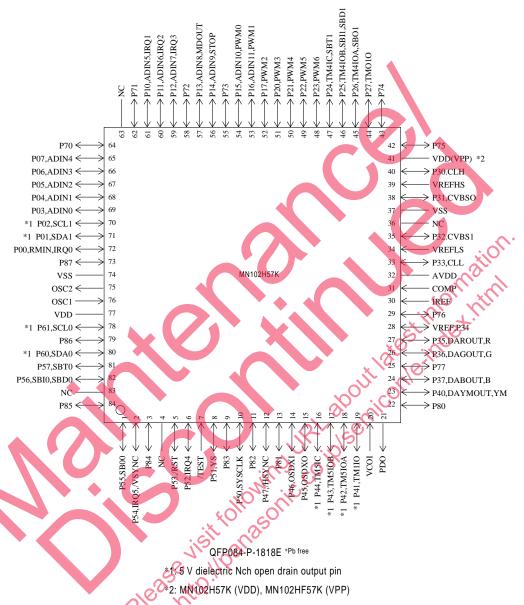
■ MN102H57K

Туре		MN102H57K		
ROM (×16-bit)				
RAM (x16-bit)		8 K		
Package		QFP084-P-1818E *Pb free		
Minimum Instruction Execution Time		83 ns (at 3.6 V to 3.0 V, 12 MHz)		
Interrupts		External (6 lines) Internal (30 lines): Timer × 11, A/D × 1, Undefined command × 1, RESET × 1, OSD × 2, Serial × 4 $I^{2}C \times 1, Caption \times 4, Remote control \times 1, Address coincidence \times 4$		
Timer Counter		8-bit timer × 4 16-bit timer × 2 Watchdog timer: 17-bit × 1		
Serial Interface		$I^2C \times 1$: for multimaster mode, bus line (output) has 2 systems Sync serial / I^2C (master) / UART $\times 2$		
Caption		• Built-in sync separator × 2		
I/O Pins	I/O	66 • Common use		
A/D Inputs		8-bit × 12-ch. (with S/H)		
D/A Inputs		4-bit × 4-ch. (analog R, G, B, YM output)		
PWM		8-bit × 7-ch.		
Special Ports		Remote control reception		
CRTC		3-layer display (graphics, characters, splits)		
Notes		Remote control input discriminant circuit built-in		
Electrical Cha	racteristics	JK 1/5°		
D/A characteris	tics			

Parameter	Symbol	Condition		Limit		
ral anjete)	Syllibor			typ	max	Unit
D/A full-scale output current	IFS	$RL = 200 \Omega$, $VREF = 1.2 V$, $RIREF = 1.2 k\Omega$	4.5	5.0	5.5	mA
D/A output voltage setting range	vo	RL = 200 Ω, VREF = 1.2 V, RIREF = 1.2 kΩ	0.9		1.1	V
D/A non-linear error	NLE	RL = 200 Ω, VREF = 1.2 V, RIREF = 1.2 kΩ			± 0.5	LSB
D/A differential non-linear error	DNLE	RL = 200 Ω, VREF = 1.2 V, RIREF = 1.2 kΩ			± 0.5	LSB
D/A channel interval error	IFS	$VREF = 1.2 V$, $RIREF = 1.2 k\Omega$, $Error from 4-channel average IFS$			± 5	%

 $(Ta = 25^{\circ}C, VDD = AVDD = 3.3 \text{ V}, VSS = 0 \text{ V}, fosc = 4 \text{ MHz})$

Pin Assignment



Support Tool

PX-ICE102H57-QFP084-P-1818E		
Туре	MN102HF57K	
ROM (× 16-bit)	256 K	
RAM (× 16-bit)	8 K	
Minimum instruction execution time	83 ns (at 3.6 V to 3.0 V, 12 MHz)	
Package	QFP084-P-1818E *Pb free	
	Type ROM (× 16-bit) RAM (× 16-bit) Minimum instruction execution time	

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