

# 8-bit/16-bit/32-bit Microprocessors

★ Under development

## 8-bit Microprocessors (Z80 Family)

Process	Product	Model No.	Function	Operating frequency (MHz) MAX.				Power consumption (mW) MAX.	Supply voltage (V)	Package	
				2.5	4	6	8				
NMOS	CPU	LH0080/MU	8-bit Microprocessor	●				1 050	5 ± 5%	40DIP/44QFP/44QFJ	
		LH0080A/AM/AU			●					40DIP/44QFJ	
		LH0080B/BU				●					
	PIO	LH0081/MU	Parallel I/O Unit	●				525	5 ± 5%	40DIP/44QFP/44QFJ	
		LH0081A/AM/AU			●					40DIP/44QFJ	
		LH0081B/BU				●				40DIP	
	CTC	LH0082/MU	Counter/Timer Circuit	●				630	5 ± 5%	28DIP/44QFP/44QFJ	
		LH0082A/AM/AU			●					28DIP/44QFJ	
		LH0082B/BU				●				28DIP	
	DMA	LH0083	Direct Memory Access	●				1 050	5 ± 5%	40DIP	
		LH0083A			●						
	SIO	SIO	LH0084/85/86	Serial I/O Unit	●				525	5 ± 5%	40DIP
			LH0087MU		●						44QFP/44QFJ
			LH0084A/85A/86A			●					40DIP
			LH0087AM/AU			●					44QFP/44QFJ
			LH0084B/85B/86B				●				40DIP
			LH0087BU				●				44QFJ
	DART	DART	LH0088M	Dual Asynchronous Receiver/Transmitter	●				525	5 ± 5%	40DIP/44QFP
			LH0088A/AM			●					40DIP
			LH0088B				●				
SCC*1	SCC*1	LH8530PU	Serial Communications Controller		●			1 313	5 ± 5%	40DIP/44QFJ	
		LH8530AP/AU				●		1 470			

## 16-bit Microprocessors (V Series)

Process	Product	Model No.	Function	Operating frequency (MHz) [MAX]			Power consumption (mW) MAX.	Supply voltage (V)	Package
				10	12	16			
CMOS	V20HL	★LH70108H-10	16-bit Microprocessor (V Series)	●			528 (at 5 V) 212 (at 5 V)	2.7 to 5.5	40DIP/52QFP
		★LH70108H-12			●				
		★LH70108H-16				●			
	V30HL	★LH70116H-10		●					
		★LH70116H-12			●				
		★LH70116H-16				●			

## 32-bit RISC Processors (ARM Series)

Model No.	Configuration	Operating frequency (MHz) MAX.	Power consumption (mW) MAX.	Supply voltage (V)	Package
LH74610	ARM6 CPU + Cache Memory(4kB) + MMU + Write buffer	20	625	5 ± 10%	144LQFP*2
★LH77710	ARM7DM CPU + Cache Memory(8kB) + MMU + Write buffer	33 (at 5 V) 20 (at 3 V)	500 (at 5 V) 100 (at 3 V)	2.7 to 5.5	
★LH76601	ARM7D CPU + Cache Memory(2kB) + RAM(2kB) + Timer + UART(3ch) + INTc + PIO + DRAMc + PWM + MEM I/F + LCDC + WDT	25 (at 5 V) 16.5 (at 3.3 V)	600 (at 5 V) 90 (at 3 V)	2.7 to 5.5	160QFP

\* 1 Z8500™ family  
 \* 2 0.5 mm fine pin-pitch  
 QFJ=PLCC