

C

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/Supply Voltage	Temperature	Package	Digi-Key Part No.	1	Price Each 25	100
Flash	8K	1K	1K	9-ch. 10-bit	—	UART, SSI	2/3/—	25	20MHz/3.0 - 5.5V	-20°C - 85°C	32-LQFP	R5F212L2SNFP#U0-ND NEW!	5.24	4.66	3.50
	16K	1K	1.5K	9-ch. 10-bit	—	UART, SSI	2/3/—	25	20MHz/3.0 - 5.5V	-20°C - 85°C	32-LQFP	R5F212L4SNFP#U0-ND NEW!	5.56	4.94	3.71
	32K	—	2K	12-ch. 10-bit	—	UART, SIO, I2C	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21206JFP#U1-ND NEW!	5.34	4.28	3.61
	48K	—	2.5K	12-ch. 10-bit	—	UART, SIO, I2C	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21206KFP#U1-ND NEW!	5.84	4.68	3.95
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21207KFP#U1-ND NEW!	5.84	4.68	3.95
	64K	—	3K	12-ch. 10-bit	—	UART, SIO, I2C	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21208JFP#U1-ND NEW!	6.34	5.08	4.28
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21208KFP#U1-ND NEW!	6.86	5.49	4.64
	32K	1K	2K	12-ch. 10-bit	—	UART, SIO, I2C	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21216JFP#U1-ND NEW!	6.34	5.08	4.28
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21216KFP#U1-ND NEW!	6.86	5.49	4.64
	48K	1K	2.5K	12-ch. 10-bit	—	UART, SIO, I2C	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21217KFP#U1-ND NEW!	7.36	5.89	4.97
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21218JFP#U1-ND NEW!	7.36	5.89	4.97
	64K	1K	3K	12-ch. 10-bit	—	UART, SIO, I2C	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21218KFP#U1-ND NEW!	7.86	6.29	5.31
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21222AJFP#U0-ND NEW!	7.52	6.02	5.08
	96K	—	5K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F2122AKFP#U0-ND NEW!	8.00	6.40	5.40
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F2122CJFP#U0-ND NEW!	8.00	6.40	5.40
	128K	—	6K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F2122CKFP#U0-ND NEW!	8.48	6.79	5.73
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21226DFP#U0-ND NEW!	6.14	4.92	4.15
	32K	—	2K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21226JFP#U1-ND NEW!	6.34	5.08	4.28
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21226KFP#U1-ND NEW!	6.86	5.49	4.64
	48K	—	2.5K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21227DFP#U0-ND NEW!	6.40	5.12	4.32
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21227JFP#U1-ND NEW!	6.86	5.49	4.64
	64K	—	3K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21227KFP#U1-ND NEW!	7.36	5.89	4.97
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21228DFP#U0-ND NEW!	6.66	5.33	4.50
	96K	1K	5K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21228JFP#U1-ND NEW!	7.36	5.89	4.97
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21228KFP#U1-ND NEW!	7.86	6.29	5.31
	128K	1K	6K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F2123AJFP#U0-ND NEW!	8.48	6.79	5.73
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F2123AKFP#U0-ND NEW!	8.96	7.17	6.05
	32K	1K	2K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F2123CJFP#U0-ND NEW!	8.96	7.17	6.05
									16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F2123CKFP#U0-ND NEW!	9.46	7.57	6.39
	48K	1K	2.5K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21236DFP#U0-ND NEW!	6.54	5.24	4.42
									16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21236JFP#U1-ND NEW!	7.36	5.89	4.97
	64K	1K	3K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21236KFP#U1-ND NEW!	7.86	6.29	5.31
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21237DFP#U0-ND NEW!	6.80	5.44	4.59
	16K	—	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/2/—	44	20MHz/2.2 - 5.5V	-40°C - 85°C	52-LQFP	R5F21237JFP#U1-ND NEW!	7.86	6.29	5.31
									-20°C - 85°C	52-LQFP	R5F21238DFP#U0-ND NEW!	7.06	5.65	4.77	
	32K	—	2K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/2/—	44	20MHz/2.2 - 5.5V	-40°C - 85°C	52-LQFP	R5F21238JFP#U1-ND NEW!	8.38	6.71	5.66
									-20°C - 85°C	52-LQFP	R5F21244SDFP#U0-ND NEW!	4.82	3.86	3.26	
	48K	—	2.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/2/—	44	20MHz/2.2 - 5.5V	-40°C - 85°C	52-LQFP	R5F21244SNFP#U0-ND NEW!	5.13	4.11	3.20
									-20°C - 85°C	52-LQFP	R5F21246SDFP#U0-ND NEW!	5.10	4.08	3.45	
	64K	—	3K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/2/—	44	20MHz/2.2 - 5.5V	-40°C - 85°C	52-LQFP	R5F21246SNFP#U0-ND NEW!	4.82	3.86	3.26
									-20°C - 85°C	52-LQFP	R5F21247SDFP#U0-ND NEW!	5.60	4.48	3.78	
	16K	2K	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/2/—	44	20MHz/2.2 - 5.5V	-40°C - 85°C	52-LQFP	R5F21248SDFP#U0-ND NEW!	5.80	4.64	3.92
									-20°C - 85°C	52-LQFP	R5F21248SNFP#U0-ND NEW!	5.60	4.48	3.78	
	32K	2K	2K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/2/—	44	20MHz/2.2 - 5.5V	-40°C - 85°C	52-LQFP	R5F21254SDFP#U0-ND NEW!	5.22	4.18	3.53
									-20°C - 85°C	52-LQFP	R5F21254SNFP#U0-ND NEW!	4.96	3.97	3.35	
	48K	2K	2.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/2/—	44	20MHz/2.2 - 5.5V	-40°C - 85°C	52-LQFP	R5F21256SDFP#U0-ND NEW!	5.46	4.37	3.69
									-20°C - 85°C	52-LQFP	R5F21256SNFP#U0-ND NEW!	5.20	4.16	3.51	
	64K	2K	3K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/2/—	44	20MHz/2.2 - 5.5V	-40°C - 85°C	52-LQFP	R5F21257SDFP#U0-ND NEW!	6.00	4.80	4.05
									-20°C - 85°C	52-LQFP	R5F21257SNFP#U0-ND NEW!	5.74	4.60	3.88	
	8K	—	500	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21258SDFP#U0-ND NEW!	6.26	5.01	4.23
-20°C - 85°C									32-LQFP	R5F21258SNFP#U0-ND NEW!	6.00	4.80	4.05		
16K	—	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21262SDFP#U0-ND NEW!	4.79	3.84	2.99	
								-20°C - 85°C	32-LQFP	R5F21262SNFP#U0-ND NEW!	4.50	3.60	2.80		
24K	—	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21264SDFP#U0-ND NEW!	5.11	4.09	3.18	
								-20°C - 85°C	32-LQFP	R5F21264SNFP#U0-ND NEW!	4.79	3.84	2.99		
32K	—	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21264YFP#U0-ND NEW!	5.04	4.04	3.41	
								-20°C - 85°C	32-LQFP	R5F21265SDFP#U0-ND NEW!	5.40	4.32	3.36		
48K	—	2K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21265SNFP#U0-ND NEW!	5.11	4.09	3.18	
								-20°C - 85°C	32-LQFP	R5F21266SDFP#U0-ND NEW!	5.06	4.05	3.42		
8K	2K	500	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21266SNFP#U0-ND NEW!	5.40	4.32	3.36	
								-20°C - 85°C	32-LQFP	R5F21272SDFP#U0-ND NEW!	5.24	4.20	3.27		
16K	2K	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21272SNFP#U0-ND NEW!	4.95	3.96	3.08	
								-20°C - 85°C	32-LQFP	R5F21274SDFP#U0-ND NEW!	5.56	4.45	3.46		
24K	—	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21274SNFP#U0-ND NEW!	5.24	4.20	3.27	
								-20°C - 85°C	32-LQFP	R5F21274YFP#U0-ND NEW!	5.60	4.48	3.78		
32K	2K	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21275SDFP#U0-ND NEW!	5.20	4.16	3.51	
								-20°C - 85°C	32-LQFP	R5F21275SNFP#U0-ND NEW!	5.56	4.45	3.46		
8K	—	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	16	20MHz/2.2 - 5.5V	-40°C - 85°C	20-LSSOP	R5F21276SDFP#U0-ND NEW!	5.46	4.37	3.69	
								-20°C - 85°C	20-LSSOP	R5F21276SNFP#U0-ND NEW!	5.20	4.16	3.51		
16K	1K	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	16	20MHz/2.2 - 5.5V	-40°C - 85°C	20-LSSOP	R5F21276YFP#U0-ND NEW!	5.80	4.64	3.92	
								-20°C - 85°C	20-LSSOP	R5F21282SDSP#U0-ND NEW!	4.21	3.37	2.62		
Flash	60K	—	2K	8-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	16	8MHz/1.8 - 5.5V	-20°C - 85°C	64-LQFP	M38C136BFP#U0-ND NEW!	6.80	5.44	4.59

RoHS Compliant *SSU = SPI*

740 Family

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/Supply Voltage	Temperature	Package	Digi-Key Part No.	1	Price Each 25	100
Flash	36K	—	1K	8-ch. 10-bit	—	2 USART	2/2/—	29	8MHz/2.2 - 5.5V	-20°C - 85°C	36-SSOP	M37542F8FP#U0-ND NEW!	8.64	6.92	5.84
	16K	—	512	8-ch. 8-bit	—	CAN, SSI, UART	3/2/—	35	10MHz/4.0 - 5.5V	-20°C - 85°C	44-QFP	M37630E4FP#U3-			

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/Supply Voltage	Temperature	Package	Digi-Key Part No.	1	25	100	
QzROM	16K	—	625	8-ch. 10-bit	—	2 USART	4/6/—	51	12.5MHz/1.8 - 5.5V	-20°C - 85°C	64-LQFP 64-LQFP	M38D24G4FP#UO-ND M38D24G4HP#UO-ND	4.79 3.84	3.84 2.99	2.99 2.99	
	24K	—	625	8-ch. 10-bit	—	2 USART	4/2/—	51	12.5MHz/1.8 - 5.5V	-20°C - 85°C	64-LQFP 64-LQFP	M38D24G6FP#UO-ND M38D24G6HP#UO-ND	5.11 5.11	4.09 3.18	3.18 3.18	
	32K	—	1.5K	8-ch. 10-bit	—	2 USART	4/2/—	59	12.5MHz/1.8 - 5.5V	-20°C - 85°C	80-QFP 80-LQFP	M38D58G8FP#UO-ND M38D58G8HP#UO-ND	5.34 5.34	4.28 3.61	3.61 3.61	
	48K	—	2K	8-ch. 10-bit	—	2 USART	4/2/—	59	12.5MHz/1.8 - 5.5V	-20°C - 85°C	80-QFP 80-LQFP	M38D58G8FP#UO-ND M38D58G8HP#UO-ND	5.60 5.60	4.48 3.78	3.78 3.78	
	60K	—	2K	8-ch. 10-bit	—	2 USART	4/2/—	59	12.5MHz/1.8 - 5.5V	-20°C - 85°C	80-QFP 80-LQFP	M38D58G8FP#UO-ND M38D58G8HP#UO-ND	5.84 5.84	4.68 3.95	3.95 3.95	
Flash	32K	—	2K	8-ch. 10-bit	—	1 USART	3/—/—	44	8MHz/3.0 - 5.2V	-20°C - 85°C	64-LQFP	M38K29F8LHP#UO-ND	9.80	8.81	7.81	
QzROM	60K	—	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16MHz/2.7 - 5.5V	-20°C - 85°C	64-QFP	M38039FFHFP#UO-ND	9.86	7.89	6.66	
Flash	60K	—	2048	16-ch. 10-bit	2-ch. 8-bit	SIO, UART	4/1/—	56	16MHz/2.7 - 5.5V	-20°C - 85°C	64-LQFP	M38039FFLHP#UO-ND	NEW!	9.60	7.68	6.48
QzROM	60K	—	2048	16 ch. 10-bit	2-ch. 8-bit	SIO, UART	4/1/—	56	16MHz/1.8 - 5.5V	-20°C - 85°C	64-LQFP	M38039G4HKP#UO-ND	NEW!	4.66	4.14	3.11
	48K	—	2K	16-ch. 10-bit	2-ch. 8-bit	3 UART	4/1/—	56	16.8MHz/2.0 - 5.5V	-20°C - 85°C	64-LQFP	M38039GCHHP#UO-ND	5.40	4.32	3.36	
	16K	—	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2.0 - 5.5V	-20°C - 85°C	64-LQFP 64-SDIP	M38039G4HHP#UO-ND M38039G4HSP#UO-ND	3.96 5.51	3.17 4.41	2.47 3.43	
	24K	—	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2.0 - 5.5V	-20°C - 85°C	64-LQFP 64-LQFP	M38039G6HHP#UO-ND M38039G6HSP#UO-ND	4.21 4.32	3.37 3.46	2.62 2.69	
	32K	—	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2.0 - 5.5V	-20°C - 85°C	64-LQFP 64-LQFP	M38039G6HHP#UO-ND M38039G6HSP#UO-ND	4.48 4.59	3.59 3.68	2.79 2.86	
	48K	—	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2.0 - 5.5V	-20°C - 85°C	64-LQFP 64-SDIP	M38039G6HHP#UO-ND M38039G6HSP#UO-ND	5.38 5.60	4.31 4.45	3.64 3.46	
	16K	—	512	9-ch. 10-bit	2-ch. 8-bit	2 UART	4/1/—	34	12.5MHz/1.8 - 5.5V	-20°C - 85°C	42-SSOP	M38503G4AFP#U1-ND	3.89	3.12	2.43	
	Flash	32K	—	1K	9-ch. 10-bit	—	2 USART	4/—/—	34	12.5MHz/2.7 - 5.5V	-20°C - 85°C	42-SSOP	M38503G4ASP#U1-ND	5.11	4.09	3.18
	Flash	32K	—	1K	9-ch. 10-bit	—	2 USART	4/—/—	34	12.5MHz/2.7 - 5.5V	-20°C - 85°C	42-SSOP	M38507F8AFP#U1-ND	8.80	7.04	5.94
	QzROM	48K	—	1.5K	—	—	2 USART	4/1/—	34	12.5MHz/2.7 - 5.5V	-20°C - 85°C	42-SSOP 42-SDIP	M38588G8FP#UO-ND M38588G8SP#UO-ND	5.34 6.10	4.28 4.88	3.61 4.12
Flash	60K	—	2K	8-ch. 10-bit	2-ch. 8-bit	2 USART	4/—/—	72	10MHz/2.7 - 5.5V	-20°C - 85°C	80-QFP 80-LQFP	M38869FFAGP#UO-ND M38869FFAHP#UO-ND	9.08 14.48	8.16 13.51	7.24 12.55	
ROMless	—	—	148K	—	—	3 UART, 1 USART, 1 I2C	—/4/4	132	266MHz/1.2V	-20°C - 70°C	449-BGA	R8A77220AC266BGV-ND	35.36	33.00	30.85	

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SuperH™ Family

SuperH is an embedded RISC developed for high performance, miniaturization and performance per power consumption (MIPS/W). We are developing CPU cores for a wide range of applications and functions and have many products. Our product lines include the series with SH-2 as the CPU core with on-chip large capacity flash memory and peripheral functions such as timer, serial and AD converter, and the series with SH-3 and SH-4 as the CPU core which enable high-speed data processing and come equipped with cache and MMU. Additionally, there is lineup of series with SH2-DSP and SH3-DSP as the CPU core, which have full DSP functions and an emphasis on multimedia processing and communications processing. Currently available series (products) also have lots of features such as low power mode, contributing to low power consumption and miniaturization for application hardware. Various versatile operating systems and development tools have been improved and, crucially, more efficient development can be achieved.

SH Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/Supply Voltage	Temperature	Package	Digi-Key Part No.	1	25	100	
ROMless	—	—	4K	—	—	3 USART, IrDA	—/2/—	78	100MHz/1.4 - 1.6V	-20°C - 75°C	176-LFBGA	D17618RBG100V-ND	14.81	13.34	11.83	
			8K	8-ch. 10-bit	—	4 USART, IrDA, Smart Card, 1 I2C	—/5/—	106	50MHz/3.0 - 3.6V	-20°C - 75°C	114-LQFP	HD6417145F50V-ND	11.02	9.90	8.78	
			—	8-ch. 10-bit	2-ch. 10-bit	UART	—/1/3	96	100MHz/3.3V 137MHz/3.3V	-20°C - 75°C	208-QFP	D6417709SF100BV-ND D6417709SF133BV-ND	21.57 23.72	20.14 22.14	18.70 20.56	
			16K	—	—	2 UART, 2 SSU,* 2 Ethernet	—/—/3	24	200MHz/1.5V	-20°C - 75°C	256-QFP	HD6417710FV-ND	23.93	22.33	20.74	
Flash	256K	—	12K	16-ch. 10-bit	—	3 USART, IrDA, 1 CAN	69	50MHz/4.5 - 5.5V	-20°C - 75°C	100-QFP	HD64F7047F50V-ND	19.04	17.77	16.50		
							65	50MHz/3.0 - 3.6V	-20°C - 75°C	240-BGA 240-BGA	HD6417727BP160CV-ND	35.93	33.53	31.14		
ROMless	—	—	16K	8 ch. 10-bit	—	SCI, SSU, I2C	—/11/—	69	80MHz/4.5 - 5.5V	-20°C - 85°C	100-TQFP 144-LQFP	DS70830A80FTV-ND DS70850A80FPV-ND	NEW!	10.87 13.68	9.77 12.77	8.66 11.86
							—/2/—	78	125MHz/1.71 - 1.89V	-20°C - 70°C	176-LFBGA	DS76190B125BVG-ND DS76190N125BVG-ND	18.09 19.01	16.89 17.74	15.68 16.48	

SH-2 Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/Supply Voltage	Temperature	Package	Digi-Key Part No.	1	25	100																
ROMless	—	—	—	8-ch. 10-bit	—	2 USART, IrDA	—/3/—	43	28.7MHz/4.5 - 5.5V	-20°C - 75°C	112-QFP 112-QFP	HD6417014F28V-ND HD6417014RF28V-ND	12.59 12.59	11.75 11.75	10.91 10.91																
																4K	8-ch. 10-bit	—	2 USART, IrDA	—/5/—	82	16.7MHz/3.0 - 3.6V 28.7MHz/4.5 - 5.5V	-20°C - 75°C	112-QFP 112-QFP	HD6417040AVCF16V-ND HD6417040ACF28V-ND	18.66 21.75	17.42 20.30	16.18 18.85			
																													4K	8-ch. 10-bit	—
																8K	8-ch. 10-bit	—	4 USART, IrDA, Smart Card, 1 I2C	—/5/—	82	50MHz/3.0 - 3.6V	-20°C - 75°C -40°C - 85°C	112-QFP 112-QFP	HD6417144F50V-ND HD6417144FW50V-ND	10.40 11.02	9.35 9.90	8.29 8.78			
																													8K	8-ch. 10-bit	—
																4K	—	—	3 USART, IrDA	—/—/—	78	100MHz/3.0 - 3.6V	-20°C - 75°C -20°C - 75°C -40°C - 85°C	176-LFBGA 176-LFBGA 176-LFBGA	D17606BG100V-ND D17606BGN100V-ND D17606BGW100V-ND	14.85 14.85 14.66	13.34 13.34 13.68	11.83 11.83 12.71			
																													8K	—	—
																4K	—	—	3 USART, IrDA	—/2/—	78	100MHz/1.4 - 1.6V	-20°C - 75°C -20°C - 75°C -40°C - 85°C -40°C - 85°C	176-LFBGA 176-LFBGA 176-LFBGA 176-LFBGA	D17618ABG100V-ND D17618ABGN100V-ND D17618ABGW100V-ND D17618RBGW100V-ND	23.85 41.10 45.00 14.66	22.26 38.36 42.00 13.68	20.67 35.62 39.00 12.71			
																													4K	—	—
																Flash	128K	—	4K	8-ch. 10-bit	—	2 USART, IrDA	WDT, MTU, CMT	82	28.7MHz/4.5 - 5.5V	-20°C - 75°C	112-QFP	HD64F7017F28V-ND			
																													Flash	256K	—

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(Continued)

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C

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	256K	—	4K	8-ch. 10-bit	—	2 USART	WDT, MTU, CMT	106	28.7MHz/4.5 - 5.5V	-20°C - 75°C	144-QFP	HD64F7045F28V-ND	41.52	38.76	35.99
			12K	12-ch. 10-bit	—	2 USART, IrDA	WDT, MTU, CMT	54	50MHz/4.0 - 5.5V	-20°C - 75°C	80-QFP	HD64F7046F50V-ND	18.11	16.90	15.70
			16K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I2C	WDT, MTU2, MTU2S, CMT	73	80MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-TQFP 100-TQFP	DF70834AD80FTV-ND DF70834AN80FTV-ND	17.15 16.37	16.01 15.28	14.86 14.19
	512	—	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I2C	WDT, MTU2, MTU2S, CMT	73	80MHz/3.0 - 5.5V	0°C - 50°C -40°C - 85°C -20°C - 85°C	100-TQFP 100-TQFP 100-TQFP	DE70835RN80FTV-ND DF70835AD80FTV-ND DF70835AN80FTV-ND	115.11 22.01 20.00	107.44 20.54 18.67	99.77 19.08 17.33
	256K	—	16K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I2C	WDT, MTU2, MTU2S, CMT	84	80MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	112-LQFP 112-LQFP	DF70844AN80FPV-ND DF70844AN80FPV-ND	18.60 16.91	17.36 15.78	16.12 14.66
	512K	—	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I2C	WDT, MTU2, MTU2S, CMT	84	80MHz/3.0 - 5.5V	0°C - 50°C -40°C - 85°C -20°C - 85°C	112-LQFP 112-LQFP 112-LQFP	DE70845RN80FPV-ND DF70845AD80FPV-ND DF70845AN80FPV-ND	115.11 22.61 20.54	107.44 21.10 19.17	99.77 19.60 17.80
	256K	—	16K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I2C	WDT, MTU2, MTU2S, CMT	108	80MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP	DF70854AD80FPV-ND DF70854AN80FPV-ND	20.00 18.18	18.67 16.97	17.33 15.76
	512K	—	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I2C	WDT, MTU2, MTU2S, CMT	108	80MHz/3.0 - 5.5V	0°C - 50°C -40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP 144-LQFP	DE70855RN80FPV-ND DF70855AD80FPV-ND DF70855AN80FPV-ND	114.21 22.86 21.75	106.60 21.34 20.30	98.99 19.82 18.85
				16-ch. 10-bit	—	4 USART, 1 SSU*, 1 I2C	WDT, MTU2, MTU2S, CMT	134	80MHz/3.0 - 5.5V	0°C - 50°C -40°C - 85°C -20°C - 85°C	176-LQFP 176-LQFP 176-LQFP	DE70865RN80FPV-ND DF70865AD80FPV-ND DF70865AN80FPV-ND	115.11 24.77 23.64	107.44 23.12 22.07	99.77 21.47 20.49
	32K	—	8K	8-ch. 10-bit	—	SCI	—/8/—	23	50MHz/4.5 - 5.5V	-40°C - 85°C	48-LQFP	DF71241N50FPV-ND NEW!	9.64	7.72	6.51
	64K	—	8K	8-ch. 10-bit	—	3 USART SCI	WDT, MTU2, CMT —/8/—	31 23	50MHz/4.5 - 5.5V	-40°C - 85°C -20°C - 85°C	48-LQFP 52-VQFN	DF71242D50FPV-ND DF71242D50NPV-ND NEW!	12.42 12.42	11.16 11.16	9.90 9.90
				8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	31	50MHz/4.5 - 5.5V	-40°C - 85°C -20°C - 85°C	48-LQFP	DF71242N50FPV-ND	12.21	10.97	9.73
	128K	—	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	31	50MHz/4.5 - 5.5V	-40°C - 85°C -20°C - 85°C	48-LQFP	DF71243D50FPV-ND DF71243N50FPV-ND	13.48 13.24	12.11 11.90	10.74 10.55
				8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	45	50MHz/4.5 - 5.5V	-40°C - 85°C -20°C - 85°C	64-QFP 64-LQFP	DF71252D50FAV-ND DF71252D50FPV-ND	13.36 12.94	12.00 11.63	10.64 10.31
	64K	—	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	45	50MHz/4.5 - 5.5V	-40°C - 85°C -20°C - 85°C	64-QFP 64-LQFP	DF71252N50FAV-ND DF71252N50FPV-ND	12.71 12.71	11.42 11.42	10.13 10.13
				8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	45	50MHz/4.5 - 5.5V	-40°C - 85°C -20°C - 85°C	64-QFP 64-LQFP	DF71253D50FAV-ND DF71253D50FPV-ND	14.01 14.01	12.59 12.59	11.16 11.16
	128K	—	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	45	50MHz/4.5 - 5.5V	-40°C - 85°C -20°C - 85°C	64-QFP 64-LQFP	DF71253N50FAV-ND DF71253N50FPV-ND	13.78 13.78	12.38 12.38	10.98 10.98
				8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	44 57 57	80MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C -20°C - 85°C	80-LQFP 100-LQFP 100-LQFP	DF71364AD80FPV-ND NEW! DF71374AD80FPV-ND NEW! DF71374AN80FPV-ND NEW!	20.42 12.81 12.81	19.06 11.51 11.51	17.70 10.21 10.21
	256K	—	8K	8-ch. 10-bit	—	4 USART, Smart Card, 1 I2C	WDT, MTU, CMT	82	50MHz/3.0 - 3.6V	-20°C - 75°C -40°C - 85°C	112-QFP 112-QFP	HD64F7144F50V-ND HD64F7144FW50V-ND	18.11 19.43	16.90 18.13	15.70 16.84
				8-ch. 10-bit	—	4 USART, Smart Card, 1 I2C	WDT, MTU, CMT	106	50MHz/3.0 - 3.6V	-20°C - 75°C	144-QFP	HD64F7145F50V-ND	18.66	17.42	16.18
				8-ch. 10-bit	—	4 USART, Smart Card, 1 I2C	WDT, MTU, CMT	106	50MHz/3.0 - 3.6V	-40°C - 85°C	114-LQFP	HD64F7145FW50V-ND	19.62	18.32	17.01
				12-ch. 10-bit	—	3 USART	WDT, MTU2, MTU2S, CMT	57	80MHz/4.0 - 5.5V	-40°C - 85°C -20°C - 85°C	80-LQFP 80-LQFP	DF71464RD80FPV-ND DF71464RN80FPV-ND	18.00 18.00	16.80 16.80	15.60 15.60
				12K	—	3 USART, 1 SSU*, 1 CAN	WDT, MTU2, MTU2S, CMT	73	64MHz/3.0 - 3.6V	-40°C - 125°C	100-LQFP	DF71474AK64FPV-ND	58.35	54.46	50.57
	512K	—	16K	16-ch. 12-bit	—	CAN, SCI, SSU	—/8/0	57	64MHz/3.3 - 5.0V	-40°C - 125°C	100-LQFP	DF71476AK64FPV-ND NEW!	53.55	49.98	46.41
256K	—	8K	12-ch. 10-bit	—	3 USART	WDT, MTU2, MTU2S, CMT	75	80MHz/4.0 - 5.5V	-20°C - 85°C	100-QFP	DF71491RN80FAV-ND	20.63	19.25	17.88	
			12-ch. 10-bit	—	3 USART SCI	—/11/—	63	80MHz/4.0 - 5.5V	-20°C - 75°C -20°C - 85°C	100-QFP 100-LQFP	DF71491RY80FAV-ND NEW! DF71494RD80FPV-ND DF71494RN80FPV-ND	16.26 17.00 16.20	15.18 15.87 15.12	14.10 14.73 14.04	
ROMless	—	—	16K	—	4 USART	—/2/—	78	125MHz/1.71 - 1.89V	-20°C - 85°C	176-LFBGA	DS76190W125BVG-ND	19.91	18.58	17.26	

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SH-2A Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	512K	—	32K	8-ch. 12-bit	2-ch. 8-bit	4 USART, 1 I2C	WDT/MTU2/MTU2S/CMT	75	160MHz/1.4 - 1.6V	-40°C - 85°C	144-LQFP	DF72115D160FPV-ND	32.21	30.06	27.92
ROMless	—	—	128K	8-ch. 10-bit	2-ch. 8-bit	4 USART, IrDA, 1 I2C	—/11/—	79	200MHz/1.15 - 1.35V	-20°C - 85°C	176-LQFP	DS72060W200FPV-ND	25.50	23.80	22.10
			32K	8-ch. 10-bit	2-ch. 8-bit	8 USART, 3 I2C, 2CAN	2/6/—	123	100MHz/3.0 - 3.6V	-40°C - 85°C	176-LQFP	DS72611RP100FPV-ND	31.43	29.33	27.24
			32K	8-ch. 10-bit	2-ch. 8-bit	8 USART, 3 I2C	2/6/—	123	120MHz/3.0 - 3.6V	-20°C - 70°C	176-LQFP	DS72612RB120FPV-ND	26.03	24.29	22.56
			32K	8-ch. 10-bit	2-ch. 8-bit	8 USART, 3 I2C, 2CAN	2/6/—	123	120MHz/3.0 - 3.6V	-20°C - 70°C	176-LQFP	DS72613RB120FPV-ND	28.20	26.32	24.44

SH-3/SH-4/SH-4A Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each																
													1	25	100														
ROMless	—	—	16K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card, IrDA	—/1/3	96	167MHz/1.9 - 3.3V	-20°C - 75°C	240-BGA	D6417709SBP167BV-ND	29.54	27.57	25.60														
									133MHz/1.8 - 3.3V	-20°C - 75°C	208-QFP	D6417709SF167BV-ND	26.82	25.04	23.25														
									200MHz/2.0 - 3.3V	-20°C - 75°C	208-LQFP	D6417709SHF200BV-ND	31.32	29.24	27.15														
									133MHz/1.5 - 3.3V	-20°C - 70°C	256-BGA	HD6417720BP133CV-ND	32.55	30.38	28.21														
						6-ch. 10-bit	2-ch. 8-bit	2 USART, 1 UART, Smart Card, USB	—/1/3	104	160MHz/1.9 - 3.3V	-20°C - 75°C	240-BGA	HD6417727BP100CV-ND	39.30	36.68	34.06												
																		8-ch. 10-bit	2-ch. 8-bit	1 UART, Smart Card, IrDA	—/1/3	96	133MHz/1.8 - 3.3V	-20°C - 75°C	208-LQFP	D6417729RF133BV-ND	26.82	25.04	23.25
																							133MHz/1.8 - 3.3V	-20°C - 75°C	208-QFP	HD6417729RF133B-ND	26.82	25.04	23.25
																							200MHz/2.0 - 3.3V	-20°C - 75°C	208-QFP	D6417729RH200BV-ND	34.41	32.12	29.83
1 UART, Smart Card	—/—/5	39	167MHz/1.9 - 3.3V	-20°C - 75°C	208-QFP	HD6417750F167-ND	45.30	42.28	39.26																				
29	240MHz/1.5 - 3.3V	-20°C - 75°C	256-BGA	D6417750RP240DV-ND	46.35	43.26	40.17																						

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Microcontrollers

SuperH™ Family SH-3/SH-4/SH-4A Series (Cont.)

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each																																																																																																																																		
													1	25	100																																																																																																																																
ROMless	—	—	—	—	—	1 UART, Smart Card	—/—/5	29	240MHz/1.5 - 3.3V 240MHz/1.5 - 3.3V	-20°C - 75°C	256-BGA 208-QFP	HD6417750RBP240-ND HD6417750RFP240-ND	38.63 34.86	36.05 32.54	33.48 30.22																																																																																																																																
																4-ch. 10-bit	—	3 UART, 2 I ² C, Smart Card, 2 CAN, USB	—/—/3	69	200MHz/2.0 - 3.3V	-20°C - 75°C	256-BGA	D6417751RBP200DV-ND	49.22	45.94	42.66																																																																																																																				
																												32K	—	I ² C, SCI, USB	—/2/—	86	200MHz/2.0 - 3.3V	-20°C - 70°C	256-BGA	R5S76700B200BG-ND NEW!	18.30	17.08	15.86																																																																																																								
																																								16K	4-ch. 10-bit	2-ch. 8-bit	I ² C, SCI, SIO, SSI, USB	—/4/6	107	133MHz/1.5 - 3.3V	-20°C - 75°C	499-BGA	R5S77631Y266BGV-ND NEW!	52.49	48.99	45.49																																																																																											
																																																					16K	—	—	I ² C, SSU*, Ethernet/USB	—/—/6	77	324MHz/3.3V	-20°C - 75°C	404-BGA	R5S77640N300BG-ND	49.13	45.85	42.58																																																																														
																																																																		16K	4-ch. 10-bit	2-ch. 8-bit	I ² C, SCI, SIO, SSI, USB	—/4/6	107	133MHz/1.5 - 3.3V	-20°C - 75°C	256-CSP	R8A77210C133BAV-ND NEW!	30.15	28.14	26.13																																																																	
																																																																															148K	—	—	4 USART, 1 I ² C, Smart Card, 2 SSU, USB, IrDA	—/4/3	99	266MHz/1.2 - 3.3V	-20°C - 75°C	417-BGA	R8A77220AC266BAV-ND	35.36	33.00	30.65																																																				
																																																																																												16K	4 ch. 10-bit	—	SCI, SSU, USB, IrDA	—/4/6	162	400MHz/3.0 - 3.6V	-20°C - 70°C	449-BGA	R8A77230C400BG#U0-ND NEW!	75.50	70.47	65.43																																							
																																																																																																									16K	—	—	2 USART SCI, SIO, SPI, SSI	—/4/6	75	400MHz/1.25 - 3.3V	-20°C - 75°C	449-BGA	R8A77800ABGAV-ND R8A77800BNGV-ND NEW!	75.00 88.13	70.00 82.25	65.00 76.38																										
																																																																																																																						128K	—	—	7 USART	—/—/7	109	600MHz/1.1 - 3.3V	-20°C - 75°C	436-BGA	R8A77850ADBGF#RD0Z-ND	68.75	64.17	59.58													
																																																																																																																																			8K	—	—	SCI, SIO, SPI, SSI	—/—/7	108	400MHz/3.0 - 3.6V	-20°C - 75°C	449-BGA	R8A77850BDBGF#RD0Z-ND NEW!	120.00	112.00	104.00

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Tools

Description	Digi-Key Part No.	Price Each
Keys — Evaluation, Development, and Starter		
Development Evaluation Kit H8SX/1657	3DK1657-ND	270.00
Development Evaluation Kit H8S/2218	3DK2218-ND	418.25
Development Evaluation Kit H8S/2218	3DK2218-SS-ND	1020.00
Development Evaluation Kit H8/38076R	3DK38076-ND	267.68
Development Evaluation Kit H8/38086R	3DK38086R-ND	235.20
Development Evaluation Kit H8S/2215	EDK2215-ND	366.24
Development Evaluation Kit H8S/2215	EDK2215R-ND	403.20
Development Evaluation Kit H8S/2239	EDK2239-ND	366.24
Development Evaluation Kit H8S/2282	EDK2282-ND	366.24
Development Evaluation Kit H8S/2329	EDK2329-ND	319.20
Development Evaluation Kit H8S/2378	EDK2378-ND	504.00
Development Evaluation Kit H8S/2398	EDK2398-ND	504.00
Development Evaluation Kit H8S/2638	EDK2638-ND	504.00
Development Evaluation Kit H8/3069	EDK3069-ND	588.00
Development Evaluation Kit H8/3687	EDK3687-ND	341.04
Development Evaluation Kit SH7145	EDK7145-ND	403.20
Development Evaluation Kit H8S/2674	EDOSK2674-ND	261.80
Flash Programmer	FDM-ND	504.00
Development H8 HEW and E10A	HEWH8E10A-ND	1434.71
Development E10A-USB 14-pin Cable	HS0005PUU01H-ND	147.36
Development Evaluation Kit M16C/26A	OSK26A-ND	54.81
Development Evaluation Kit for M16C/62P	OSK62P-ND	54.81
Development Add-On Board RSK38347	ROK0APPBDB010BE-ND	252.00
Development RSK Add-On Board Ethernet and USB	ROK0APPBDB020BE-ND	546.00
Development Evaluation Kit M16C/26A	ROK33026AS000BE-ND	270.00
Development Evaluation Kit M16C/29	ROK33029S000BE-ND	270.00
Development Evaluation Kit M16C/6NK	ROK3306NK001BE-ND	252.00
Development Evaluation Kit M16C/62P	ROK33062PS000BE-ND	270.00
Development Evaluation Kit M37542	ROK337542S000B#ES-ND	252.00
Development Evaluation Kit H8S/2215R	ROK42215RS000BE-ND	252.00
Development Evaluation Kit H8/38099	ROK438099S000BE-ND	252.00
Development Evaluation Kit H8/38347	ROK438347S000BE-ND	252.00
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