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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	—	32K	16-ch. 10-bit	6-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I ² C	2/6/—	113	34MHz/3.0 - 3.6V	-20°C - 75°C	145-TFLGA 144-LQFP 145-TFLGA	DF2372RVL34V-ND DF2372VFQ34V-ND DF2372VLP34V-ND	17.52 13.91 16.76	16.36 12.98 15.64	15.19 12.06 14.53															
	384K	—	32K	16-ch. 10-bit	6-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I ² C	2/6/—	113	34MHz/3.0 - 3.6V	-20°C - 75°C	144-LQFP 145-TFLGA 144-LQFP 145-TFLGA	DF2374RVFQ34V-ND DF2374RVL34V-ND DF2374VFQ34V-ND DF2374VLP34V-ND	15.42 18.29 14.67 19.25	14.40 13.70 17.07 15.85	13.37 15.85 15.51 16.68															
			30K	16-ch. 10-bit	4-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I ² C	2/6/—	97	33MHz/3 - 3.6V	-20°C - 75°C	144-LQFP	DF2376VFQ33V-ND	17.34	16.19	15.03															
			24K	16-ch. 10-bit	6-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I ² C	2/6/—	113	33MHz/3.0 - 3.6V	-20°C - 75°C -40°C - 85°C -40°C - 85°C -40°C - 85°C	144-LQFP 144-LQFP 144-LQFP 144-LQFP	DF2377RVFQ33V-ND DF2377RVFQ33V-ND DF2377RVFQ33V-ND DF2377RVFQ33V-ND	17.90 18.80 17.90 18.80	16.71 15.51 16.29 15.51	15.15 16.29 15.51 16.29															
	512K	—	32K	16-ch. 10-bit	6-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I ² C	2/6/—	113	34MHz/3.0 - 3.6V 35MHz/3.0 - 3.6V 35MHz/3.0 - 3.6V 34MHz/3.0 - 3.6V	-20°C - 75°C	144-LQFP 144-LQFP 144-LQFP 144-LQFP	DF2378AVFQ34V-ND DF2378BVFQ35V-ND DF2378BVFQ35V-ND DF2378BVFQ35V-ND	16.20 15.42 16.97 18.29	15.12 14.40 15.84 17.71	14.04 13.37 14.71 15.85															
																256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 - 5.5V	-20°C - 75°C	120-TQFP 128-QFP 128-QFP	DF2398TE20V-ND DF2398F20TV-ND DF2398F20V-ND	16.74 17.82 16.20	15.63 16.64 15.41	14.51 15.45 14.04
	512K	—	40K	8-ch. 10-bit	—	I ² C, SSU, USB I ² C, SSU, USB	4/6/—	113	34MHz/3.0 - 3.6V	-20°C - 75°C	144-LQFP 176-LFBGA 176-LFBGA	R4F2462VFQ34V-ND R4F2472VBR340V-ND R4F2472VBR34V-ND	21.83 19.08 17.34	20.37 18.92 16.54	18.92 16.54 15.03															
																384K	—	32K	16-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card, 2 I ² C	4/6/—	120	26MHz/3.0 - 5.5V	-40°C - 75°C -20°C - 75°C	176-LFBGA 144-QFP	DF2505BR26DV-ND DF2505FC26V-ND	25.01 22.86	23.34 21.34	21.68 19.82
	384K	—	24K	16-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card, 2 I ² C	4/6/—	120	26MHz/3.0 - 5.5V	-40°C - 75°C	176-LFBGA 144-QFP	DF2551BR26DV-ND DF2551FC26V-ND	26.00 24.00	24.27 22.40	22.53 20.80															
																512K	—	32K	16-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card, 2 I ² C	4/6/—	120	26MHz/3.0 - 5.5V	-40°C - 75°C	176-LFBGA 144-QFP	DF2552BR26DV-ND DF2552FC26V-ND	27.90 26.00	26.04 24.27	24.18 22.53
	256K	—	12K	16-ch. 10-bit	—	3 USART, Smart Card, 1 CAN	—/6/—	70	20MHz/4.5 - 5.5V	-20°C - 75°C	100-QFP	DF2623FA20V-ND DF2623FA20V-ND	28.97 24.00	27.04 22.40	25.11 20.80															
																128K	—	8K	16-ch. 10-bit	—	2 USART, 2 SSU*, Smart Card, 1 CAN	4/6/—	76	24MHz/4.5 - 5.5V	-20°C - 75°C	100-QFP	DF2628FA24V-ND	16.01	14.94	13.88
	256K	—	16K	16-ch. 10-bit	4-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I ² C	4/6/—	89	16MHz/3.0 - 3.6V 25MHz/3.0 - 3.6V 25MHz/3.0 - 3.6V	-20°C - 75°C	128-QFP 128-QFP 120-TQFP	DF2633F16V-ND DF2633F25V-ND DF2633TE25V-ND	21.90 21.90 24.00	20.44 20.44 22.40	18.98 18.98 20.80															
																16K	16-ch. 10-bit	4-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I ² C	4/6/—	89	28MHz/4.5 - 5.5V	-20°C - 75°C	120-TQFP 120-TQFP	DF2633RF28V-ND DF2633RF28V-ND	19.01 19.61	17.74 18.30	16.48 17.00		
																													16K	16-ch. 10-bit
	128K	—	4K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 CAN	—/6/—	84	20MHz/4.5 - 5.5V	-20°C - 75°C	128-QFP 128-QFP	DF2636F20V-ND DF2636UF20V-ND	22.28 23.63	20.79 22.05	19.31 20.48															
																256K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 CAN	—/6/—	84	20MHz/4.5 - 5.5V	-20°C - 75°C	128-QFP 128-QFP 128-QFP	DF2638F20V-ND DF2638F20V-ND DF2638UF20V-ND	25.14 30.66 26.28		
																													256K	—
	256K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 CAN	—/6/—	84	20MHz/4.5 - 5.5V	-20°C - 75°C	128-QFP	DF2639UF20V-ND	27.80	25.95	24.09															
																128K	—	4K	12-ch. 10-bit	—	2 USART, Smart Card, 1 CAN	—/6/—	108	20MHz/4.5 - 5.5V	-40°C - 85°C -20°C - 75°C	144-QFP 144-QFP	DF2643FC16V-ND DF2643FC25V-ND	23.04 23.04		
																													128K	—
	384K	—	16K	12-ch. 10-bit	4-ch. 8-bit	3 USART, IrDA, Smart Card	2/6/—	115	33MHz/3.0 - 3.6V	-20°C - 75°C	144-LQFP	DF2667VFQ33V-ND	18.66	17.42	16.18															
																256K	—	8K	12-ch. 10-bit	4-ch. 8-bit	3 USART, IrDA, Smart Card	2/6/—	115	33MHz/3.0 - 3.6V	-20°C - 75°C	144-QFP	DF2676VFQ33V-ND	20.00		

H8SX 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	256K	—	12K	16-ch. 10-bit	—	2 USART, 3 SSU*, Smart Card I ² C, SCI	—/12/—	99	48MHz/4.5 - 5.5V	-20°C - 85°C	120-LQFP	DF61582N48FPV-ND	22.86	21.34	19.82													
			24K	8-ch. 10-bit	2-ch. 8-bit	—	—/12/14	81	50MHz/3.0 - 3.6V	-20°C - 75°C	120-LQFP	R5F61632N50FPV-ND NEW!	12.71	11.42	10.13													
ROMless	—	—	24K	8-ch. 10-bit	2-ch. 8-bit	Smart Card, SCI	4/6/2	50	50MHz/3.0 - 3.6V	-20°C - 75°C	120-LQFP	DS61650CN50FPV-ND NEW!	9.34	7.48	6.31													
			40K	8-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card	4/6/2	50	50MHz/3.0 - 3.6V	-20°C - 75°C	120-LQFP	DS61651CN50FPV-ND NEW!	9.57	8.60	7.63													
																4 USART, IrDA, Smart Card	4/6/—	90	50MHz/3.0 - 3.6V	-20°C - 75°C	120-LQFP	DS61651N50FPV-ND NEW!	9.69	8.70	7.72			
Flash	384K	—	40K	8-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, USB FS, Smart Card, 2 I ² C	8/6/—	75	50MHz/3.0 - 3.6V	-20°C - 75°C	120-TQFP	R5F61653N50FTV-ND	17.15	16.01	14.86													
																512K	—	40K	8-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, Smart Card, 2 I ² C	8/6/—	84	50MHz/3.0 - 3.6V	-20°C - 75°C	120-TQFP	DF61654N50FTV-ND	18.59
	24K	8-ch. 10-bit	2-ch. 8-bit	SCI	4/6/2	82	50MHz/3.0 - 3.6V	-20°C - 75°C	120-TQFP	DF61656CN35FTV-ND NEW!	17.52	16.36	15.19															
														24K	8-ch. 10-bit													
	768K	—	24K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card	4/6/—	90	35MHz/3.0 - 3.6V	-20°C - 75°C	120-TQFP	DF61657BN35FTV-ND	19.01			17.74	16.48											
														384K	—			40K	8-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 2 I ² C	8/6/—	101	50MHz/3.0 - 3.6V	-20°C - 75°C -40°C - 85°C	144-LQFP 144-LQFP	DF61663N50FPV-ND DF61663W50FPV-ND	17.52 19.28
	512K	—	40K	8-ch. 10-bit	2-ch. 8-bit	I ² C, SCI, USB	8/12/4	92	50MHz/3.0 - 3.6V	-20°C - 75°C -40°C - 85°C	144-LQFP 144-LQFP	R5F61664RN50FPV-ND NEW! DF61664W50FPV-ND	14.28 20.85			13.33 19.46	12.38 18.07											
														1024K	—			56K	8-ch. 10-bit	2-ch. 8-bit	I ² C, SCI, USB	8/12/4	92	50MHz/3.0 - 3.6V	-20°C - 75°C	144-LQFP	R5F61668RN50FPV-ND NEW!	19.28

• RoHS Compliant *SSU = SPI

(Continued)

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