

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	—	—	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 NEW!	36.75	34.30	31.85	
ROMless	—	—	16K	4-ch. 10-bit	2-ch. 8-bit	I ² C, Smart Card, USB, 2 USART	—/9/3	110	133MHz/1.5 - 3.3V	-20°C - 70°C	256-BGA	HD6417720BP133CV-ND	32.55	30.38	28.21	
ROMless	—	—	16K	6-ch. 10-bit	2-ch. 8-bit	2 USART, 1 USART, Smart Card, USB	—/1/3	104	160MHz/1.9 - 3.3V	-20°C - 75°C	240-BGA	HD6417727BP100CV-ND NEW!	39.30	36.68	34.06	
ROMless	—	—	16K	8-ch. 10-bit	2-ch. 8-bit	1 USART, Smart Card, IrDA	—/1/3	96	133MHz/1.8 - 3.3V 133MHz/1.8 - 3.3V 200MHz/2.0 - 3.3V	-20°C - 75°C	208-LQFP 208-QFP 208-QFP	D6417729RF133BV-ND HD6417729RF133B-ND D6417729RH200BV-ND	26.82 26.82 34.41	25.04 25.04 32.12	23.25 23.25 29.83	
ROMless	—	—	—	—	—	1 USART, Smart Card	—/—/5	39	167MHz/1.9 - 3.3V 240MHz/1.5 - 3.3V	-20°C - 75°C	208-QFP 256-BGA	HD6417750F167-ND D6417750RBP240V-ND	45.30 46.35	42.28 43.26	39.26 40.17	
ROMless	—	—	—	—	—	1 USART, Smart Card	—/—/5	29	240MHz/1.5 - 3.3V 240MHz/1.5 - 3.3V	-20°C - 75°C	256-BGA 208-QFP	HD6417750RBP240-ND HD6417750RF240-ND	38.63 34.86	36.05 32.54	33.48 30.22	
ROMless	—	—	—	—	—	1 USART, Smart Card	—/—/5	39	200MHz/2.0 - 3.3V	-20°C - 75°C	256-BGA	D6417751RBP200DV-ND	49.22	45.94	42.66	
ROMless	—	—	—	4-ch. 10-bit	—	3 USART, 2 I ² C, Smart Card, 2 CAN, USB	—/—/3	69	200MHz/2.0 - 3.3V	-20°C - 75°C	256-BGA	D6417760BP200ADV-ND	49.88	46.55	43.23	
ROMless	—	—	16K	—	—	I ² C, SSU*, Ethernet/USB	—/—/6	77	32MHz/3.3V	-20°C - 85°C	404-BGA	R5S77640N3008G-ND	49.13	45.85	42.58	
ROMless	—	—	16K	—	—	2 USART	—/4/6	75	400MHz/1.25 - 3.3V	-20°C - 75°C	449-BGA	R8A77800ANBAGV-ND NEW!	75.00	70.00	65.00	
ROMless	—	—	128K	—	—	6 USART	—/—/6	108	600MHz/1.1 - 3.3V	-20°C - 75°C	436-BGA	R8A77850ADBGV-ND NEW!	66.68	62.23	57.79	
ROMless	—	—	128K	—	—	7 USART	—/—/7	109	600MHz/1.1 - 3.3V	-20°C - 75°C	436-BGA	R8A77850ADBGVFRD0Z-ND NEW!	68.75	64.17	59.58	

◆ RoHS Compliant *SSU = SPI®

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	QSK26A-ND	54.81
Development Evaluation Kit for M16C/62P	QSK62P-ND	54.81
Development Add-On Board RSK38347	ROK0APBDB010BE-ND	252.00
Development RSK Add-On Board Ethernet and USB	ROK0APBDB020BE-ND	546.00
Development Evaluation Kit M16C/26A	ROK3026AS000BE-ND	270.00
Development Evaluation Kit M16C/29	ROK3029OS000BE-ND	270.00
Development Evaluation Kit M16C/6NK	ROK306NK001BE-ND NEW!	252.00
Development Evaluation Kit M16C/62P	ROK3062PS000BE-ND	270.00
Development Evaluation Kit M32C/67	ROK30879S000BE-ND	270.00
Development Evaluation Kit M37542	ROK337542S000BRES-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
Development Evaluation Kit R8C/1B	ROK5211B4S000BE-ND	252.00
Development Evaluation Kit R8C/13	ROK521134S000BE-ND	270.00
Development Evaluation Kit R8C/23	ROK521237S000BE-ND	270.00
Development Evaluation Kit R8C/25	ROK521256S000BE-ND	270.00
Development Evaluation Kit R8C/26-29	ROK521276S000BE-ND	252.00
Development Evaluation Kit H8SX/1582F	ROK561582S000BE-ND	270.00
Development Evaluation Kit H8S/1664F	ROK561664S000BE-ND	252.00
Development Evaluation Kit R8C/2D	ROK5212D8S000BE-ND	252.00
Development Evaluation Kit SH7086	ROK570865S000BE-ND	336.00
Development Evaluation Kit SH7124	ROK571242S000BE-ND	270.00
Development Evaluation Kit SH7203	ROK572030S000BE-ND	1554.00
Development Evaluation Kit CAN R8C/23	RCDK8C-ND	588.00
Demo Kit ZigBee 2.4GHz	RZB-CC16C-ZDK-ND	1275.00
Development Evaluation Kit ZigBee 2.4GHz	RZB-CC28FC-BRD-ND	286.88
Demo Kit ZigBee ZMD 900MHz	RZB-ZMD16C-ZDK-ND	1190.00
Development Evaluation Kit H8/38024	SKP38024-ND	127.50
Development Evaluation Kit H8/38602R	SKP38602-ND	127.50
Development Evaluation Kit H8/36077	SKP36077-ND	154.56
Development Evaluation Kit H8S/2612	US2612EDK1-ND	366.24
Development Evaluation Kit H8S/2623	US2623EDK1-ND	613.94
Development Evaluation Kit H8/3068	US3068EDK1-ND	613.20
Development Evaluation Kit R8C/SPB	YR8CSPB-ND NEW!	94.53
Software		
C Compiler H8 1 User	RTA-HEWH8-1U-ND	1363.25
C Compiler H8 1 User LAN	RTA-HEWH8-1UL-ND	1375.69
C Compiler M16C 1 User	RTA-HEWNC30-1U-ND	1363.25
C Compiler M16C 1 User LAN	RTA-HEWNC30-1UL-ND	1734.79
C Compiler M32C 1 User	RTA-HEWNC308-1U-ND	1363.25
C Compiler M32C 1 User LAN	RTA-HEWNC308-1UL-ND	1734.79
C Compiler SH 1 User	RTA-HEWSH-1U-ND	2693.25
C Compiler SH 1 User LAN	RTA-HEWSH-1UL-ND	2891.30
Emulators		
Development Emulator Base Unit H8S/2100	E62140-ND	8658.30
Development Emulator Base Unit H8S/2300	E62339-ND	9904.50
Development Emulator Base Unit H8S/2633	E62633R-ND	9336.60
Development Emulator Base Unit H8S/2678	E62678R-ND	11299.50
Development Emulator Base Unit H8/3064	E63064B-ND	9647.82

Description	Digi-Key Part No.	Price Each
Development Emulator Base Unit H8/300L	E63800-ND	1774.22
On Chip Debug Emulator	HS0005KCU01H-ND	7430.00
On Chip Debug Emulator with Trace	HS0005KCU02H-ND	2430.00
On Chip Debug Emulator E10A Lite	HS0005KCU11H-ND	900.00
Emulator Base Unit H8S/2168	HS2168P61H-ND	8299.20
Emulator Base Unit H8S/2214	HS2214EP162H-ND	7710.00
Emulator Base Unit H8/3664	HS3664EP162H-ND	5910.00
Compact Emulator for M16C/26A/28/29	M3029072-CPE-ND	1620.00
Compact Emulator for M16C/Tiny	M3029072-CPE-HP-ND	1829.23
Compact Emulator for M16C/26A/28/29	M3062PT3-CPE-3-ND	1860.00
Emulator Base Unit M16C/60	M3062PT3-RPD-E-ND	3777.20
Compact Emulator for M16C/80	M30800T-CPE-ND	1995.00
Emulator Base Unit M16C Platform	PC7501-ND	6727.50
Compact Emulator for H8/3664	ROE436640CPE10-ND	2457.00
Compact Emulator for H8/TINY	ROE436640CPE20-ND	2457.00
Compact Emulator for M16C/62P	ROK71SNV003001R-ND	3593.13
Emulator Personality Kit H8/3664	ROE436640CPE00-ND	2715.00
Emulator Personality Kit R8C/13	ROE52100CEP800-ND	1215.00
Emulator Base E8A for H8 and M16C	ROE00008AKCE00-ND	175.00
Emulator Personality Kit R8C/13	ROE521134CPE00-ND	1935.00
Emulator Personality Kit R8C/10-13	ROE521134CEP800-ND	1725.00
Emulator Personality Kit R8C/17	ROE521174CPE00-ND	1935.00
Emulator for R8C/18/19/1A/1B	ROE521174CPE10-ND	1800.00
Emulator Personality Kit R8C/20-23	ROE521237CPE00-ND	1935.00
On Chip Debug Emulator	RTA-FOUSB-MON-ND	60.86
Accessories		
Development Emulator Accessory	E6E10EXT-ND	369.60
Emulator PCB Adapter 100-QFP	EHB2148Q100B-ND	628.50
Emulator PCB Adapter 100-QFP	EHB2238Q100B-ND	554.40
Emulator PCB Adapter 100-QFP	EHB2318Q100B-ND	586.32
Emulator PCB Adapter 128-QFP	EHB238Q128-ND	925.20
Emulator PCB Adapter 128-QFP	EHB2633Q128-ND	1267.20
Emulator PCB Adapter 100-QFP	EHB3064B0100B-ND	520.80
Emulator PCB Adapter 120-TQFP	HS1650ECN61H-ND	1226.40
Personality Kit H8SX/1650	HS1650EPH60H-ND	9456.30
Emulator PCB Adapter 100-QFP	HS2148ECN61HE-ND	1428.24
Emulator PCB Adapter 144-TQFP	HS2168ECN61H-ND	2766.40
Emulator PCB Adapter 64-QFP	HS2212ECN61H-ND	2912.70
Emulator PCB Adapter 112-LFBGA	HS2215ECB62H-ND	3370.86
Emulator PCB Adapter 120-TQFP	HS2215ECN61H-ND	2761.08
Emulator PCB Adapter 120 TQFP	HS2215ECN61H-ND	3120.00
Emulator PCB Adapter 100-QFP	HS2218ECN61H-ND	3120.00
Emulator PCB Adapter 100-QFP	HS2238ECN61H-ND	1436.40
Emulator PCB Adapter 112-LFBGA	HS2238ECB62H-ND	2154.60
Emulator PCB Adapter 144-QFP	HS2238ECN61H-ND	1436.40
Emulator PCB Adapter 144-QFP	HS2378ECN61H-ND	1822.10
Emulator Personality Kit H8S/2633	HS2633ECN61H-ND	1428.42
Emulator PCB Adapter 64-QFP	HS36014ECN61H-ND	1436.40
Emulator PCB Adapter 48-QFP	HS36014ECN63H-ND	1436.40
Emulator Accessory H8/36024	HS36024E1061H-ND	1290.00
Emulator PCB Adapter 80-QFP	HS36049ECN61H-ND	1620.00
Emulator PCB Adapter 64-QFP	HS3664ECN61H-ND	1436.40
Emulator PCB Adapter 64-QFP	HS3664ECN62H-ND	1436.40
Emulator PCB Adapter 48-QFP	HS3664ECN63H-ND	1436.40
Emulator PCB Adapter 48-QFP	HS3664ECN64H-ND	1436.40
Emulator PCB Adapter 64-QFP	HS3687ECN61H-ND	1620.00
Emulator PCB Adapter 64-QFP	HS3687ECN62H-ND	1620.00
Emulator Personality Kit M16C/26	M30260T-EPB-GP-ND	1374.24
Emulator Personality Kit M16C/26	M30262T-PTC-ND	570.00
Emulator Personality Kit M16C/28	M30290T-EPB-HP-ND	1374.24
Emulator Personality Kit M16C/28	M30291T-EPB-HP-ND	1374.24
Emulator Personality Kit M16C/62P	M3062PT-EPB-ND	1359.00
Emulator Probe M16C/6N	M306NKT-EPB-ND	1710.00
M16C/26 Socket Board (48-P6Q-A)	M3A-0286G01-ND	295.20
Emulator Accessory	M3T-100LCC-DMS-ND	108.00
Emulator PCB Adapter 100-QFP	M3T-DUMMY100S-ND	196.50
Emulator PCB Adapter 100-LQFP	M3T-F160-100NSD-ND	381.00
Emulator PCB Adapter 128-LQFP	M3T-F160-128NRD-ND	570.00
Emulator PCB Adapter 100-LQFP	M3T-FLX-100NRB-ND	728.00
Emulator PCB Adapter 100-QFP	M3T-FLX-100NSD-ND	780.00
Emulator PCB Adapter 144-LQFP	M3T-FLX-144NSD-ND	570.00
Emulator Accessory	M3T-FLX100-R-ND	196.00
Emulator Accessory	M3T-FLX100-T-ND	196.00
Development Evaluation PSU and Serial Cable	USBAG-PSU1-ND	23.25

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