

H8/300 8-bit Devices

Series	Product Name	Part#				Memory Size		Speed		Low Power Mode	Timers			SCI ¹ Sync / Async	A/D # chan, res	D/A # chan, 8-bit	I/O Pins		Inter-rupts Ext Int	Other Features	Note	Package						
		OTP	ROM	Romless	FLASH	ROM	RAM	MHz @ 5v	MHz @ 3v		8-bit	16-bit	PWM 8-bit				I/O Input only	I/O Output only				DIP	QFP	TQFP	PLCC	win	win	
SmartCard ICs	H8/3101	-	HCD6483101	-	-	10K	256	10	-	1	-	-	-	-	-	-	2	-	-	ROM security function, 8K EEPROM	-	Die, COB ⁴ or 10 pin SOP ⁴	-	-	-	-		
	H8/3102	-	HCD6483102	-	-	16K	512	10	5	1	-	-	-	-	-	-	2	-	-	Die, COB ⁴ or 10 pin SOP ⁴	-	-	-	-	-			
	H8/3103	-	HCD6483103	-	-	20K	512	5	5	1	-	-	-	-	-	-	2	-	-	16K EEPROM	-	Die, COB ⁴ , COT ⁴	-	-	-	-		
H8/325	H8/322	HD6473228	HD6433228	-	-	8K	256	10	-	3	2	1	-	2	-	-	53	-	4	17	Parallel handshake port	5	64	64	-	68	64	-
	H8/323	HD6473238	HD6433238	HD6413238	-	16K	512	10	-	3	2	1	-	2	-	-	53	-	4	17	16 high current (10 mA) outputs	5	64	64	-	68	64	-
	H8/324	HD6473258	HD6433248	-	-	24K	1K	10	-	3	2	1	-	2	-	-	53	-	4	17		5	64	64	-	68	-	-
	H8/325	HD6473258	HD6433258	HD6413258	-	32K	1K	10	-	3	2	1	-	2	-	-	53	-	4	17		5	64	64	-	68	64	-
	H8/3256	HD6473256	HD6433256	-	-	48K	2K	10	5	3	2	1	-	2	-	-	53	-	4	17		5	64	64	-	68	64	-
H8/3217	H8/3257	HD6473257	HD6433257	-	-	60K	2K	10	5	3	2	1	-	2	-	-	53	-	4	17		5	64	64	-	68	64	-
	H8/3202	HD6473214	HD6433202	-	-	16K	512	16	10	3	2	1	-	2	-	-	53	-	4,8	26	I ² C, ISA bus Host I/F (not H8/3212), KBD controller (not H8/3212), watchdog timer,	5,6	64	64	80	-	-	-
	H8/3212	HD6473214	HD6433212	-	-	16K	512	16	10	3	3	1	16	1	-	-	53	-	4	26	16 high current (10 mA) outputs	5,6	64	64	80	-	-	-
	H8/3214	HD6473214	HD6433214	-	-	32K	1K	16	10	3	3	1	16	2	-	-	53	-	4,8	26		5,6	64	64	80	-	-	-
	H8/3216	HD6473217	HD6433216	-	-	48K	2K	16	10	3	3	1	16	2	-	-	53	-	4,8	26		5,6	64	64	80	-	-	-
H8/329	H8/3217	HD6473217	HD6433217	-	-	60K	2K	16	10	3	3	1	16	2	-	-	53	-	4,8	26		5,6	64	64	80	-	-	-
	H8/326	HD6473278	HD6433268	HD6413278	-	8K	256	10	5	3	2	1	-	1	8, 8-bit	-	43	8	4	18	16 high current (10 mA) outputs	5	64	64	-	68	-	-
	H8/327	HD6473278	HD6433278	HD6413278	-	16K	512	10	5	3	2	1	-	1	8, 8-bit	-	43	8	4	18		5	64	64	80	68	64	-
	H8/328	HD6473298	HD6433288	HD6413298	-	24K	1K	10	5	3	2	1	-	1	8, 8-bit	-	43	8	4	18		5	64	64	-	68	-	-
H8/3297	H8/329	HD6473298	HD6433298	HD6413298	-	32K	1K	10	5	3	2	1	-	1	8, 8-bit	-	43	8	4	18		5	64	64	80	68	64	-
	H8/3292	HD6473294	HD6433292	-	-	16K	512	16	10	3	2	1	-	1	8, 10-bit	-	43	8	4	19	Watchdog timer, wait state controller	5	64	64	80	-	-	-
	H8/3294	HD6473294	HD6433294	-	-	32K	1K	16	10	3	2	1	-	1	8, 10-bit	-	43	8	4	19		5	64	64	80	-	-	-
	H8/3296	HD6473297	HD6433296	-	-	48K	2K	16	10	3	2	1	-	1	8, 10-bit	-	43	8	4	19		5	64	64	80	-	-	-
H8/3522	H8/3297	HD6473297	HD6433297	-	-	60K	2K	16	10	3	2	1	-	1	8, 10-bit	-	43	8	4	19		5	64	64	80	-	64	-
	H8/3522	HD6473294	HD6433522	-	-	16K	512	10	-	3	2	1	-	1	8, 10-bit	-	43	8	4	19	Watchdog timer, wait state controller	5	64	64	-	-	-	-
H8/330	H8/330	HD6473308	HD6433308	HD6413308	-	16K	512	10	-	3	2	1	2	1	8, 8-bit	-	58	8	9	19	15 byte dual port RAM, KBD controller	2,5,6	-	80	-	84	-	84
H8/3337Y	H8/3334Y	HD6473334Y	HD643334Y	-	HD64F3334Y	32K	1K	16	10	3	2	1	2	2	8, 10-bit	2	58	8	9	26	I ² C, ISA bus Host I/F, KBD controller, watchdog timer, wait state controller,	2,3,5,6	-	80	80	84	-	-
	H8/3336Y	HD6473337Y	HD643336Y	-	HD64F3337Y	48K	2K	16	10	3	2	1	2	2	8, 10-bit	2	58	8	9	26	16 high current (10mA) outputs	2,3,5,6	-	80	80	84	-	-
	H8/3337Y	HD6473337Y	HD643337Y	-	HD64F3337Y	60K	2K	16	10	3	2	1	2	2	8, 10-bit	2	58	8	9	26		2,3,5,6	-	80	80	84	-	84
H8/3397	H8/3394	HD6473334Y	HD6433394	-	-	32K	1K	16	10	3	2	1	2	2	8, 10-bit	-	58	8	9	26	KBD controller, watchdog timer, wait state controller	2,5,6	-	80	80	84	-	-
	H8/3396	HD6473337Y	HD6433396	-	-	48K	2K	16	10	3	2	1	2	2	8, 10-bit	-	58	8	9	26		2,5,6	-	80	80	84	-	-
	H8/3397	HD6473337Y	HD6433397	-	-	60K	2K	16	10	3	2	1	2	2	8, 10-bit	-	58	8	9	26	16 high current (10 mA) outputs	2,5,6	-	80	80	84	-	-
H8/3534	H8/3534	HD6433534	-	-	32K	1K	10	-	3	2	1	2	2	8, 10-bit	-	58	8	9	26	KBD controller, watchdog timer, wait state controller, 16 high current outputs	2,5,6	-	80	-	-	-	-	
H8/3437	H8/3434	HD6473434	HD6433434	-	HD64F3434	32K	1K	16	10	3	2	1	2	2	8, 10-bit	2	74	8	9	26	I ² C, ISA bus Host I/F, KBD controller, watchdog timer, wait state controller,	2,3,5,6	-	100	100	-	-	-
	H8/3436	HD6473437	HD6433436	-	HD64F3437	48K	2K	16	10	3	2	1	2	2	8, 10-bit	2	74	8	9	26	16 high current (10mA) outputs	2,3,5,6	-	100	100	-	-	-
	H8/3437	HD6473437	HD6433437	-	HD64F3437	60K	2K	16	10	3	2	1	2	2	8, 10-bit	2	74	8	9	26		2,3,5,6	-	100	100	-	-	-
H8/338	H8/336	HD6473378	HD6433368	HD6413378	-	24K	1K	10	5	3	2	1	2	2	8, 8-bit	2	58	8	9	22	16 high current (10 mA) outputs	5	-	80	-	84	-	-
	H8/337	HD6473378	HD6433378	HD6413378	-	32K	1K	10	5	3	2	1	2	2	8, 8-bit	2	58	8	9	22		5	-	80	-	84	-	84
	H8/338	HD6473388	HD6433388	HD6413388	-	48K	2K	10	5	3	2	1	2	2	8, 8-bit	2	58	8	9	22		5	-	80	-	84	-	84
H8/3318	H8/3315	HD6473318	HD6433315	-	-	32K	2K	16	10	3	2	2	2	2	8, 10-bit	-	58	8	9	33	Data transfer unit (DTU), programmable timing pattern	5	-	80	80	84	-	-
	H8/3318	HD6473318	HD6433318	-	-	60K	4K	16	10	3	2	2	2	2	8, 10-bit	-	58	8	9	33	controller (TPC), watchdog timer	5	-	80	80	84	-	84

- Notes:
- 1) SCI = Serial Communication Interface
 - 2) IKAP = Integrated Keyboard And Power management
 - 3) FC is an option for H8/3334Y, 3336Y, 3337Y, H8/3434, H8/3436, and H8/3437. Inform Hitachi if option is to be used. In mask ROM versions, chips featuring the I²C bus include a W in the part number
 - 4) COB is "chip on board", COT "is chip on tape", and SOP is "small outline package"
 - 5) Standard temp is -20° C to +75° C. I temp is -40° C to +85° C @ 1000 hr test. J temp (limited devices) = I temp @ 2000 hr test. Please contact Marketing for extended temperature requirements.
 - 6) KBD Controller is Keyboard Controller