

October 15, 2014

## Product Specifications of the RH850/P1x Series of MCUs

	RH850/P1M	
	100 pin	144 pin
<b>Main CPU</b>	160 MHz (with Lockstep)	
<b>Code flash</b>	2 MB/1 MB/512 KB	2 MB/1 MB
<b>Data flash (E2PROM)</b>	64 KB (Note 1) / 32 KB (Note 2)	
<b>RAM</b>	128 KB (Note 3) / 64 KB (Note 4)	
<b>DMA</b>	16 (DMAC) / 128 (DTS)	
<b>MPU</b>	12 ch	
<b>Timer function</b>	Motor Control Timer (TSG3): 2 unit Timer Array Unit D (TAUD): 3 unit (16 ch/unit) Timer Array Unit J (TAUJ): 3 unit (4 ch/unit) Timer Option (TAPA): 4 unit Encoder Timer (ENCA): 2 unit Timer Pattern Buffer (TPBA): 2 unit OS Timer (OSTM): 7 unit Watchdog Timer (WDTA): 1 unit	
<b>Serial I/F</b>	Clocked Serial Interface G: 1 ch Clocked Serial Interface H: 4 ch Serial Communication Interface3 (SCI3): 3 ch LIN/UART Interface (RLIN): 32 ch CAN Interface (RS-CAN): 2 ch FlexRay (FLXA): 1 ch	
<b>Sensor I/F</b>	RSENT: 5 ch PSI5: 2 ch	RSENT: 6 ch PSI5: 2 ch
<b>ADC</b>	9 ch + 10 ch (T&H 6 ch + 4 ch)	12 ch + 12 ch (T&H 6 ch + 4 ch)
<b>Power Supply</b>	Dual-power supply: 3.3 V-5 V/1.25 V Single power supply: 3.3 V-5 V	
<b>Other Peripheral functions</b>	Error Control Module (ECM), DataCRC (DCRA), Power Supply Voltage Monitor, Temperature Sensor	

	<b>RH850/P1M</b>	
	<b>100 pin</b>	<b>144 pin</b>
<b>Package</b>	100-pin LQFP (14x14)	144-pin LQFP (16x16, 20x20)

(Note 1) Only available in devices with 2 MB flash memory.

(Note 2) Only available in devices with 1 MB and 512 KB flash memory.

(Note 3) Only available in devices with 2 MB and 1 MB flash memory.

(Note 4) Only available in devices with 512 KB flash memory.

(Remarks) All other registered trademarks or trademarks are the property of their respective owners.