



R7F7010303AFP

The in-vehicle high-end microcomputer which was the best for body application and had the lineup which can respond to a variety of Systems

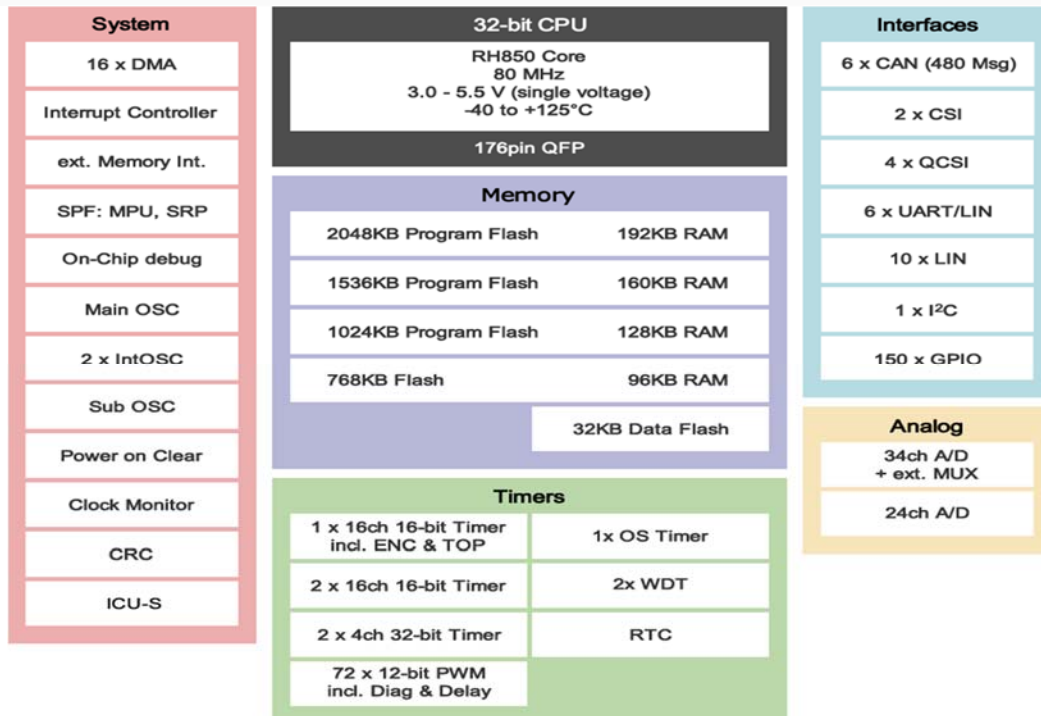
OVERVIEW

The RH850/F1L is a product line in Renesas' RH850/F1x series of single chip microcontrollers designed for automotive body applications. The embedded flash memory will range from 256 KB to 2 MB and packages will be covered from small package 48 pin to 176 pin.

Product Status: Product Inquiry

Family: RH850 Series: RH850/F1x Group: RH850/F1L

BLOCK DIAGRAM



PARAMETRICS

Parameters	R7F7010303AFP
Memory	
Program memory	1536 KB Flash memory
RAM	160 KB
Data Flash	32 KB
CPU (Bit, Clock, DMA, External Bus etc)	
CPU	RH850G3K (32-bit)
Max. Frequency	80 MHz
Sub-Clock (32.768 kHz)	YES
On-chip Oscillator Freq.	8 MHz, Low Speed: 240 kHz
PLL	YES
Power-On Reset	YES
Low Voltage Detection	YES
DMA Remarks	DMAC x 16ch
External Interrupt Pins	16
I/O Ports	120
Timers	
16-bit Timers	32 ch
32-bit Timers	8 ch
Watchdog Timers	2 ch
Other Timers	Timer for OS x 1ch
PWM Output	64
Analog	
A/D Converters	10-bit x 24 ch, 12-bit x 24 ch
Interfaces	
CAN	6 ch
CSIs	2 ch
SPIs	4 ch
UARTs	6 ch
I2Cs	1 ch
LIN	12 ch
Serial Interface Remarks	UART: RLIN3, LIN: RLIN3 + RLIN2
Operating Conditions	
Operating Voltage	to 5.5 V
Operating Temperature	-40 to 105 °C (Ambient Temperature)
Remarks	
Remarks	144-pin 32-bit microcontroller with low power RH850G3K core suitable for car body control (R850/F1L)