R7F7010113AFP

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.

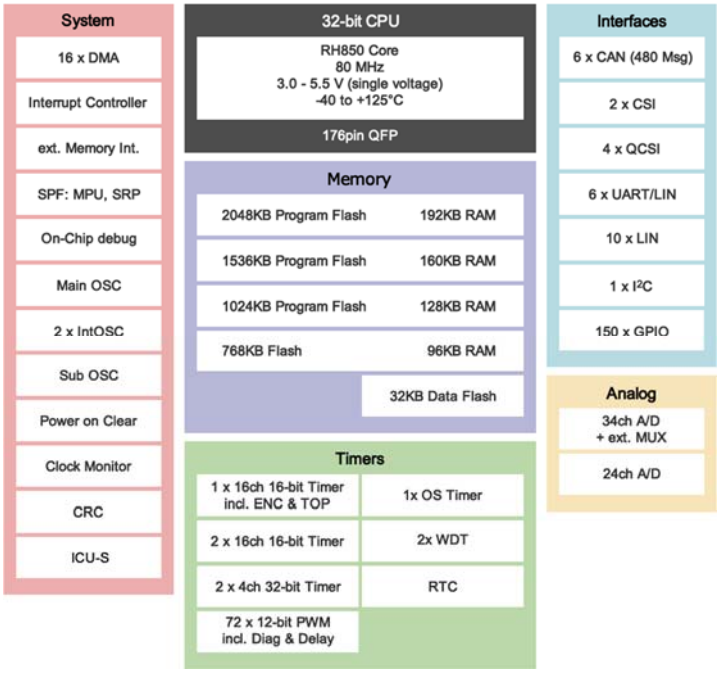
Product Status: Product Inquiry

Family: RH850

Series: RH850/F1x

Group: RH850/F1L

BLOCK DIAGRAM



PARAMETRICS

Parameters	R7F7010113AFP
Memory	
Program memory	256 KB Flash memory
RAM	32 KB
Data Flash	32 KB
CPU (Bit, Clock, DMA, External Bus etc)	
CPU	RH850G3K (32-bit)
Max. Frequency	80 MHz
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	8
I/O Ports	49
Timers	
16-bit Timers	16 ch
32-bit Timers	4 ch
Watchdog Timers	2 ch
Other Timers	Timer for OS x 1ch
PWM Output	24
Analog	
A/D Converters	10-bit x 11 ch, 12-bit x 10 ch
Interfaces	
CAN	3 ch
CSIs	1 ch
SPIs	1 ch
UARTs	2 ch
I2Cs	1 ch
LIN	4 ch
Serial Interface Remarks	UART: RLIN3, LIN: RLIN3 + RLIN2
Operating Conditions	
Operating Voltage	to 5.5 V
Operating Temperature	-40 to 105 ℃ (Ambient Temperature)
Remarks	
Remarks	64-pin 32-bit microcontroller with low power RH850G3K core suitable for car body control (R850/F1L)

https://www.renesas.com/eu/en/products/microcontrollers-microprocessors/rh850/rh850f1x/rh850f1l/device/R7F7010113AFP.html#overviewInfo/1-10-19