

December 7, 2010

## Key Features of Renesas Electronics' New RF21S MCU

Item	RF21S Specifications	
Product name	RS46NBM	RS46NBMG
Supply voltage	Main: 2.5 to 3.3V, I/F: 1.65 to 3.3V	
Operating frequency	27.12MHz	
Operating temperature	-20 to +85°C	-20 to +75°C
CPU core	16-bit RS-4 core	
On-chip RAM	8Kbytes	
On-chip mask ROM	224Kbytes	
On-chip EEPROM	64Kbytes	
Crypto coprocessors	Modular multiplication coprocessor (2624-bit)	
	AES coprocessor	
	Triple DES coprocessor	
Peripheral functions	Random number generator	
	Digital number generator	
	Watchdog timer	
	Interval timer (TMR1/TMR2/TMR3/TMR4/TMRA/TMRF)	
	CRC coprocessor	
Contactless interfaces	ISO14443 Type-A/B	
	FeliCa™	
	ISO15693 (RW mode only)	
Contact interfaces	SWP (Single Wire Protocol)	
	IIC	
	SCI	
	SSU	

Item	RF21S Specifications	
Package	47-pin WPP (4.0mm x 4.6mm, 0.22mm thickness)	64-pin BGA (5.0mm x 5.0mm, 1.0mm thickness)

(Remarks) FeliCa is the name of a non-contact chip card technology developed by Sony Corporation and a registered trademark of Sony Corporation.