

Smart Machine

Smart Decision



# **SIM800\_SIM900 \_HD\_Comparison\_V1.02**

**5 Aug, 2013**



## SIM800 VS SIM900 ON PIN Definition (difference)

PIN NO.	SIM800	SIM900
2	GND	NC
6	PCM_OUT	NC
23	KPLED	NC
24	VBUS	NC
27	USB_DP	DBG_TXD
28	USB_DM	DBG_RXD
53	ANT_BT	GND



## SIM800 VS SIM900 Difference

Difference	SIM800	SIM900
BT FUNCTION	SUPPORT	NOT SUPPORT
PCM/SPI/SD INTERFACE	ALL SUPPORT	SUPPORT SPI ONLY
PWM	1 PWM	2 PWMs
INTERRUPT FUNCTION	SOME GPIO	ALL GPIO
USB INTERFACE	SUPPORT	NOT SUPPORT
DEBUG PORT	USB	DEBUG_TXD/DBG_RXD
KEYPAD	5*5*2	4*5
RF SYNC	SUPPORT(220uS)	NOT SUPPORT

**\*Note: Due to the different platforms.**



## SIM800 VS SIM900 Difference

Difference	SIM800	SIM900
POWER SUPPLY:	3.4~4.4V	3.2~4.8V
PWRKEY VOLTAGE DOMAIN	VBAT	3V
VRTC INPUT VOLTAGE	1~2.8V	2~3.15V
VDD_EXT OUTPUT CURRENT	50mA	10mA
KPLED	100mA	NOT SUPPORT
PWRKEY ACTIVE VOLTAGE	<1.7V	<0.42V
VIH	2.1<VIH<3.1	2.4<VIH
VIL	-0.3<VIL<0.7	VIL<0.4
VOH	>2.4V	>2.7V
VOL	<0.4V	<0.1V
T <sub>pull down</sub> TO RESET	>105mS	>20uS

**\*Note: Due to the different platforms.**



## SIM800 VS SIM900

- The SIM800 is compatible with the SIM900.

About the detail difference in hardware design, please refer to "SIM800\_Hardware Design" and "SIM900\_Hardware Design".

About the detail difference in software design, please refer to "SIM800\_ATC\_V1.01" and "SIM900\_AT\_Command\_Manual".