

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	$2.1 < V_{IH} < 3.1$	$2.4 < V_{IH}$
VIL	$-0.3 < V_{IL} < 0.7$	$V_{IL} < 0.4$
VOH	$> 2.4V$	$> 2.7V$
VOL	$< 0.4V$	$< 0.1V$
$T_{\text{pull down}}$ TO RESET	$> 105\text{ms}$	$> 20\mu\text{S}$

****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".