

Smart Machine    Smart Decision



# **SIM900-TE-C\_SIM300C/340C \_HD\_Comparison\_V1.01**

**July 7, 2010**



# SIM900-TE-C VS SIM300C/340C

- SIM900-TE VS SIM300C/340C ON PIN Definition ( difference)

PIN NO.	SIM300C/340C	SIM900-TE-C
11	VCHG	NC
13	TEMP_BAT	NC
23	BUZZER	PWM
57	SPK2P	SPK1P
58	MIC2P	MIC1P
59	SPK2N	SPK1N
60	MIC2N	MIC1N



# SIM900-TE-C VS SIM300C/340C Difference

Difference	SIM300C/340C	SIM900-TE-C
POWER SUPPLY:	3.4~4.5V	3.2~4.8V
POWER ON TIME	$T_{on} > 2S$	$T_{on} > 1S$
POWER OFF TIME	$0.5S < T_{off} < 1S$	$T_{off} > 1S$
UNDER-VOLTAGE WARNING	$V_{BAT} \leq 3.5V$	$V_{BAT} \leq 3.3V$
UNDER-VOLTAGE POWER DOWN	$V_{BAT} \leq 3.4V$	$V_{BAT} \leq 3.2V$
OVER-VOLTAGE WARNING	$V_{BAT} \geq 4.5V$	$V_{BAT} \geq 4.7V$
OVER-VOLTAGE POWER DOWN	$V_{BAT} \geq 4.6V$	$V_{BAT} \geq 4.8V$
FREQUENCY BANDS	For SIM300C: 900/1800/1900 SIM340C:850/900/1800/1900	850/900/1800/1900



Difference	SIM300C/340C	SIM900-TE-C
<b>VRTC *</b>	1.8V	3V
<b>PWRKEY *</b>	PULLED UP TO VBAT	PULLED UP TO 3V
<b>VDD_EXT*</b>	2.93V	2.8V
<b>TYPICAL GPIO VOLTAGE*</b>	$V_{IO}= 2.93V$	$V_{IO}= 2.8V$
<b>VOLTAGE AT DIGIT PINS*</b> (absolute maximum rating )	$V_{min}=-0.3V$ $V_{max}=3.3V$	$V_{min}=-0.3V$ $V_{max}=3.1V$
<b>ADC0 *</b>	0~2.4V/12bit	0~2.8V/10bit
<b>KEYPADS</b>	5*5	4*5
<b>AUTOBAUDING *</b>	1200~115200bps	1200~57600bps
<b>DEBUG PORT *</b>	used for debugging	used for debugging and firmware upgrading

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



# SIM900-TE-C VS SIM300C/340C

- The SIM900-TE-C is pin to pin compatible with the SIM300C/340C.

About the detail difference in software design, please refer to "SIM900\_SIM300\_ATC\_Comparison\_v1.0" and "SIM900\_ATC\_V1.01".