

Smart Machine

Smart Decision



SIM900D_SIM300D/340D _HD_Comparison_V1.02

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SIM900D VS SIM300D/340D

- Compare to the SIM300D/340D , the signals added on SIM900D are:
 - An additional PWM for driving the buzzer, the backlight .
 - Signal differences on the pin between SIM900D and SIM300D/340D :

PIN NO.	SIM300D/340D	SIM900D
40	GPIO/Buzzer	GPIO
47	NC	PWM



SIM900D VS SIM300D/340D Difference

Difference	SIM300D/340D	SIM900D
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	$VBAT \leq 3.5V$	$VBAT \leq 3.3V$
UNDER-VOLTAGE POWER DOWN	$VBAT \leq 3.4V$	$VBAT \leq 3.2V$
OVER-VOLTAGE WARNING	$VBAT \geq 4.5V$	$VBAT \geq 4.7V$
OVER-VOLTAGE POWER DOWN	$VBAT \geq 4.6V$	$VBAT \geq 4.8V$
FREQUENCY BANDS	For SIM300D: 900/1800/1900 SIM340D: 850/900/1800/1900	850/900/1800/1900



Difference	SIM300D/340D	SIM900D
VRTC *	1.8V	3V
PWRKEY *	PULLED UP TO VBAT	PULLED UP TO 3V
TYPICAL GPIO VOLTAGE *	$V_{IO} = 2.93V$	$V_{IO} = 2.8V$
VOLTAGE AT DIGIT PINS * (absolute maximum rating)	$V_{min} = -0.3V$ $V_{max} = 3.3V$	$V_{min} = -0.3V$ $V_{max} = 3.1V$
ADC0 *	0~2.4V/12bit	0~2.8V/10bit
AUTOBAUDING *	1200~115200bps	1200~57600bps
DEBUG PORT *	used for debugging	used for debugging and firmware upgrading

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



SIM900D VS SIM300D/340D

- The SIM900D is pin to pin compatible with the SIM300D/340D.

About the detail difference in software design, please refer to "SIM900_SIM300_ATC_Comparison_v1.0" and "SIM900_ATC_V1.01".