SIMCom
A company of SIM Tech

Smart Machine Smart Decision

SIM900B_SIM300 /SIM340_HD_Comparison_V1.02

July 15,2010

SIM900B VS SIM300/SIM340 Difference

Difference	SIM300/340	SIM900B
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 WARNNING	VBAT≤ 3.5V	VBAT≤ 3.3V
UNDER-VOLTAGE POWER DOWN	VBAT≤ 3.4V	VBAT≤ 3.2V
OVER-VOLTAGE WARNNING	VBAT≥ 4.5V	VBAT≥ 4.7V
OVER-VOLTAGE POWER DOWN	VBAT≥ 4.6V	VBAT≥ 4.8V
FREQUENCY BANDS	For SIM300: 900/1800/1900 For SIM340:850/900/1800/1900	850/900/1800/1900

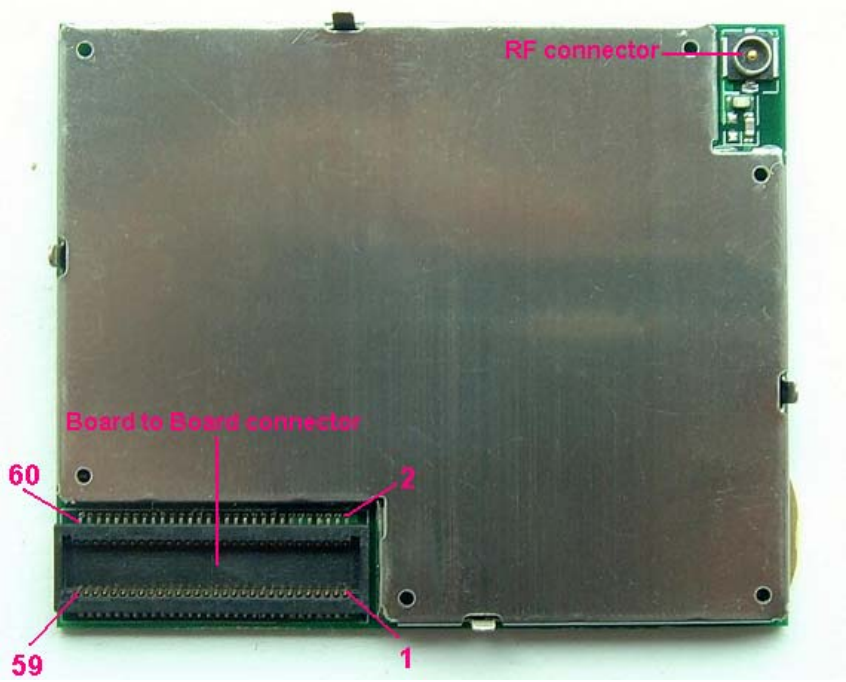
SIM900B VS SIM300/SIM340 Difference

Difference	SIM300/340	SIM900B
VRTC *	1.8V	3V
PWRKEY *	PULLED UP TO VBAT	PULLED UP TO 3V
VDD_EXT*	2.93V	2.8V
TYPICAL GPIO VOLTAGE*	V_{IO}= 2.93V	V_{IO}= 2.8V
VOLTAGE AT DIGIT PINS* **(absolute maximum rating)**	Vmin=-0.3V Vmax=3.3V	Vmin=-0.3V Vmax=3.1V
ADC0 *	0~2.4V/12bit	0~2.8V/10bit
KEYPADS	5*5	4*5
AUTOBAUDING *	1200~115200bps	1200~57600bps
DEBUG PORT *	used for debugging	used for debugging and firmware upgrading

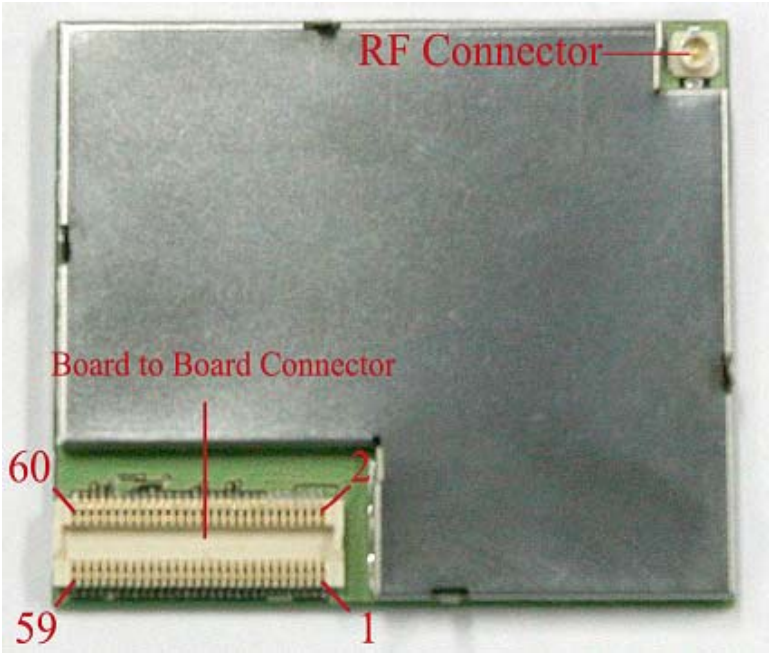
SIM900B VS SIM300 series

The BTB and RF connectors of SIM300 and SIM900B are different ,please refer to “SIM900B_HD”and “SIM300_HD” document or contact SIMCom for details

- SIM300



SIM900B



SIM900B VS SIM300 series

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