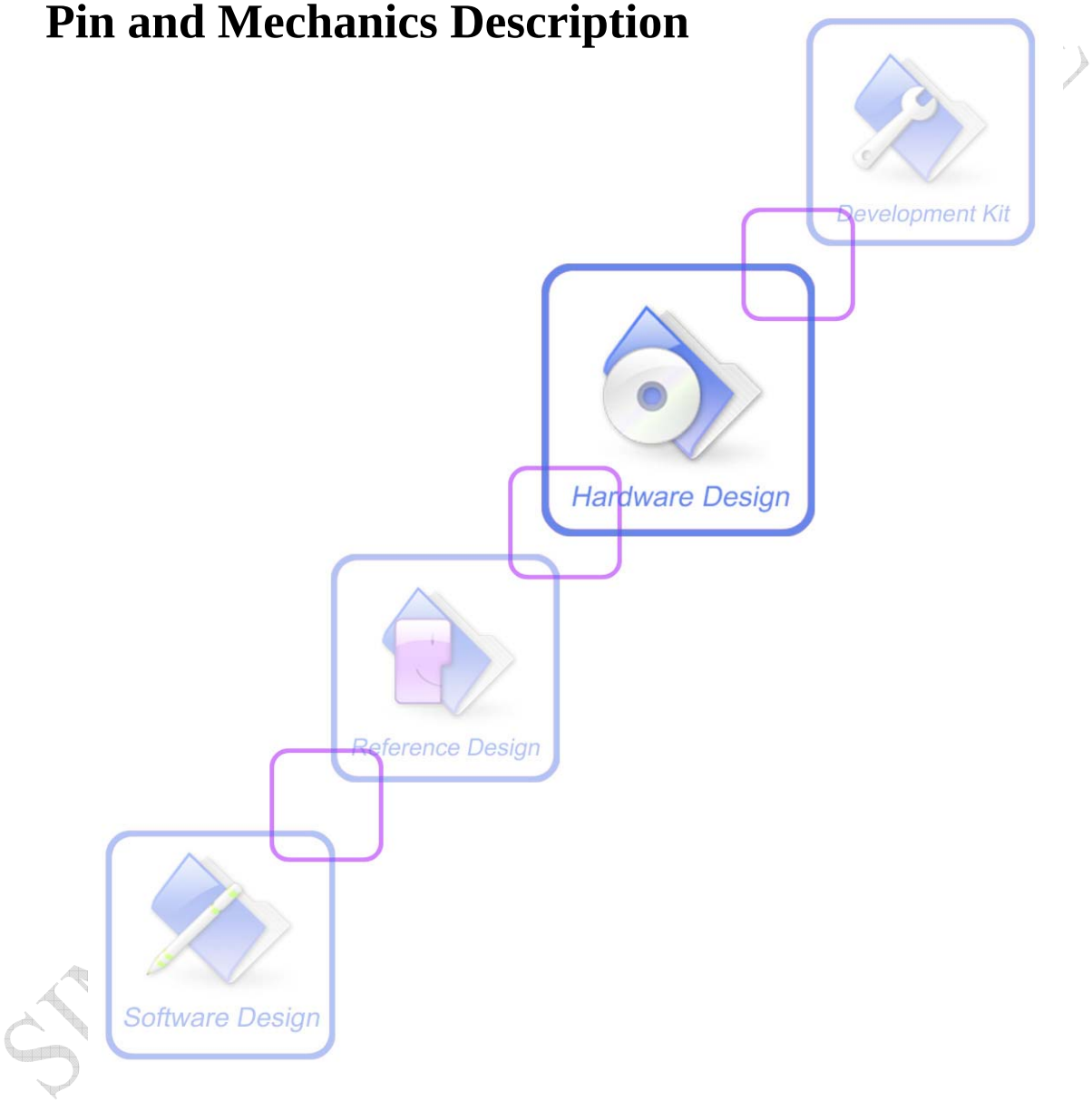
SIM20

Pin and Mechanics Description



1. SIM20 pin description

Table 1: Board-to-board connector pin description

PIN NAME	NUMBER	I/O	DESCRIPTION
VCC	1，2		Power supple for SIM20, 3.3V~5.5V
GND	3，4		Digital ground
EN	5	I	Enable pin for SIM20, high level (3.3V~5.5V) active
ADCIN	6	I	General purpose analog to digital converter, 0V~3V
A	7	I/O	RS485 difference I/O A
B	8	I/O	RS485 difference I/O B
SDA/SCK	9	I/O	IIC data / SPI clock
SCL/SS	10	I/O	IIC clock / SPI slave choice
RXD/MISO	11	I/O	UART receive data / SPI bus
TXD/MOSI	12	I/O	UART transmit data / SPI bus

2 Mechanics

This chapter describes the mechanical dimensions of SIM20.

2.1 Mechanical dimensions of SIM20

Following shows the Mechanical dimensions of SIM20 (top view and side view).

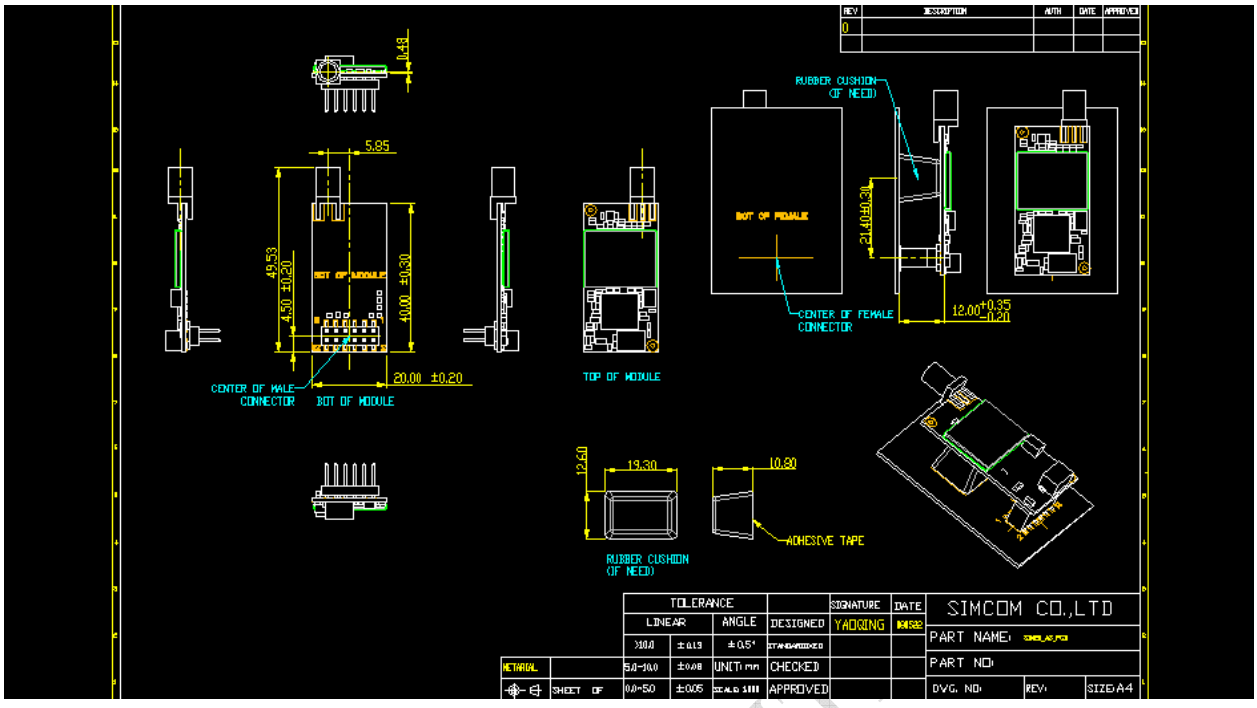


Figure 2: Mechanical dimensions of SIM20（Unit: mm）

2.2 Mounting SIM20 onto the application platform

Use the connector ASTRON 1491012-096-R to fix the SIM20 onto customer platform.

2.3 Board to Board connector

We recommend ASTRON Company's 1491012-096-R and 1519206-090-R as the board-to-board connector. This SMT connector is designed for parallel Board-to-Board applications.

2.3.1 Mechanical dimensions of the ASTRON 1519206-090-R

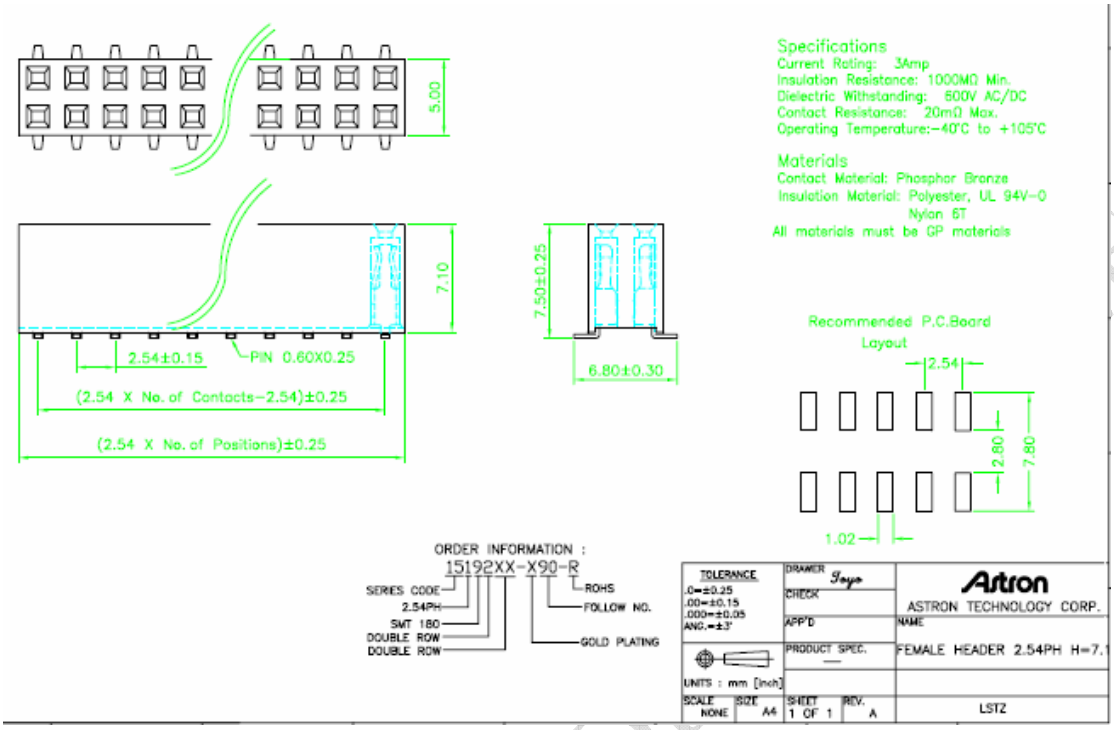


Figure 3: ASTRON1519206-090-R Board to Board connector

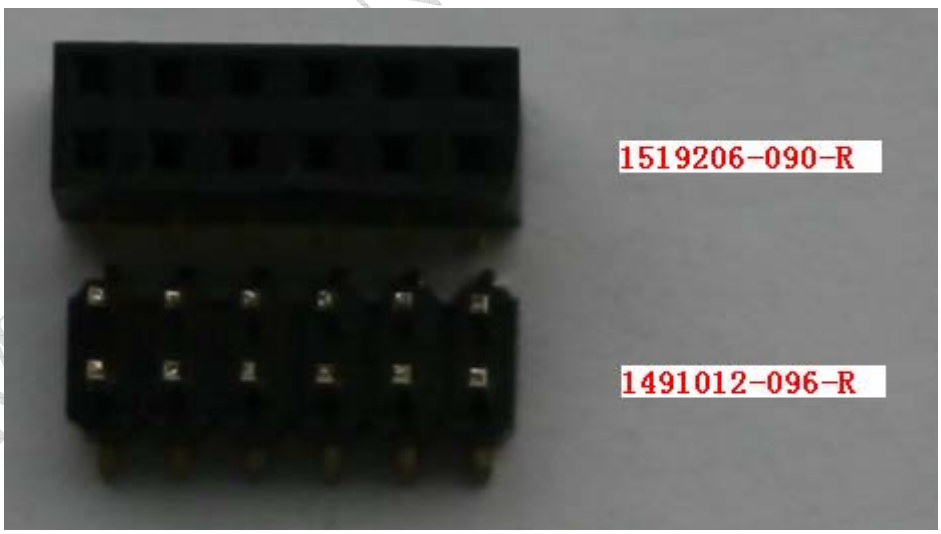


Figure 3: ASTRON Board to Board connector physical photo

NOTE:

The connector ASTRON 1491012-096-R is used in pin side (SIM20-A module) and 1519206-090-R is used in socket side (user side).

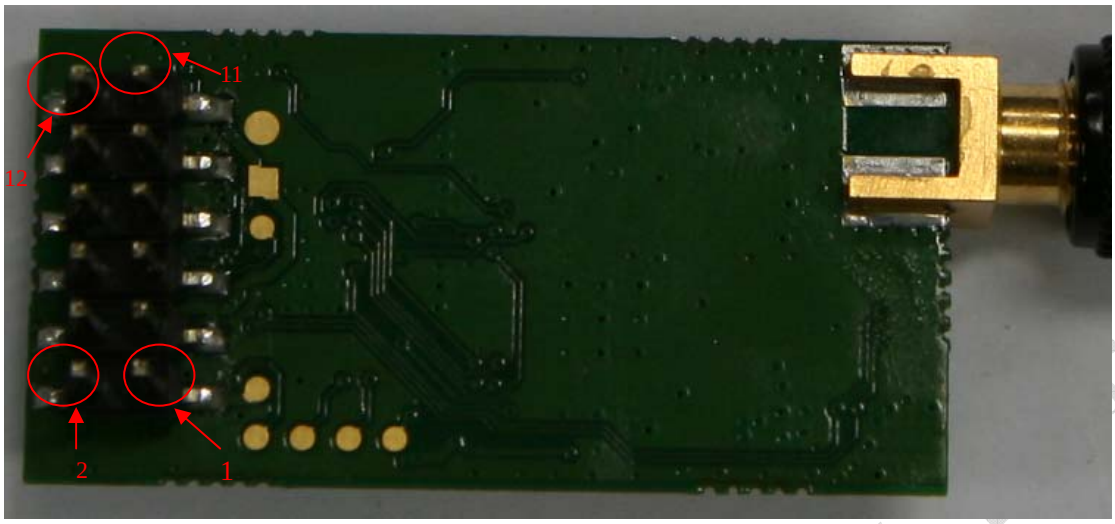


Figure 4: Bottom view of SIM20

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