

Difference between SIM7500A and SIM7600A-H

1 Introduction

This document is targeted for customers to understand the difference between the SIM7500A and SIM7600A-H. It lists the differences between SIM7500A module and SIM7600A-H module.

The software of SIM7500A and SIM7600A-H is exactly the same version.

2 Differences of Operating Bands

SIM7500A and SIM7600A-H supports the same operating bands.

Standard	Frequency	SIM7500A	SIM 7600A-H
WCDMA	B2	✓	✓
	B5	✓	✓
LTE	B2	✓	✓
	B4	✓	✓
	B12	✓	✓

3 Differences of Components

SIM7500A and SIM7600A-H were designed with the same platform (Qualcomm MDM9x07 series) and the same hardware design, SIM7500A supports category CAT 1 and SIM7600A-H supports category CAT4, and the difference won't affect the RF and EMC. The differences are shown as below table.

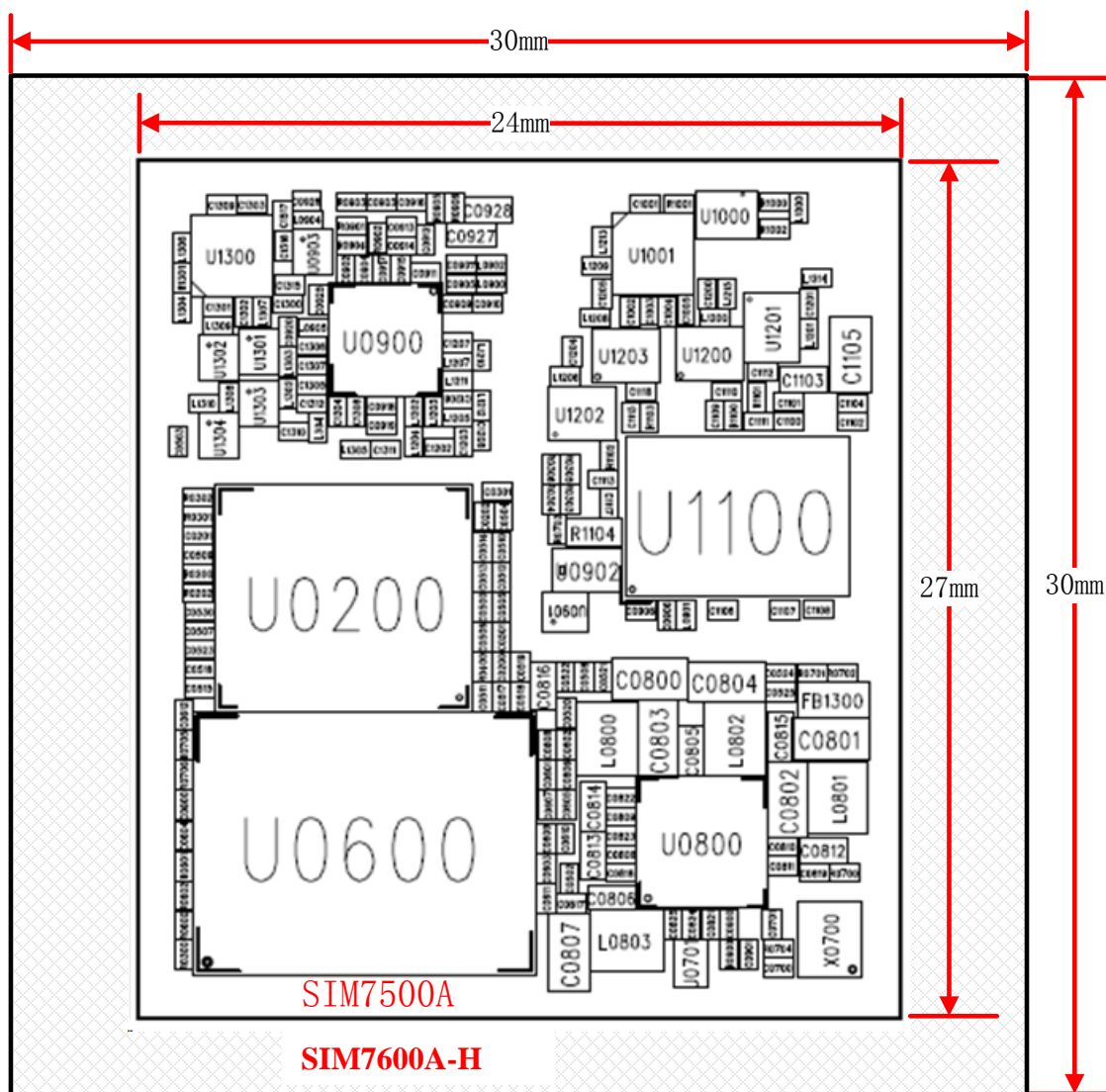
Feature differences between SIM7500A and SIM7600A-H

NO.	Features	SIM7500A module	SIM7600A-H module
1	Chipset	MDM-9207-1	MDM-9607-0
2	Uplink data rate	up to 5Mbps	up to 50Mbps
3	Downlink data rate	up to 10Mbps	up to 150Mbps

4 Difference of PCB Layout

SIM7600A-H is just the size scaled version of SIM7500A, the schematic is same as SIM7500A, and the PCB components placement and layout are same as SIM7500A also. As shown in the following figure, for SIM7600A-H, there is no extra component in the shadowed area. The only two differences of SIM7500A and SIM7600A-H are:

- 1) The size is enlarged from 24x27 to 30x30 to back up compatible to other SIMCom modules.
- 2) The form factor is changed from LGA to LCC.



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