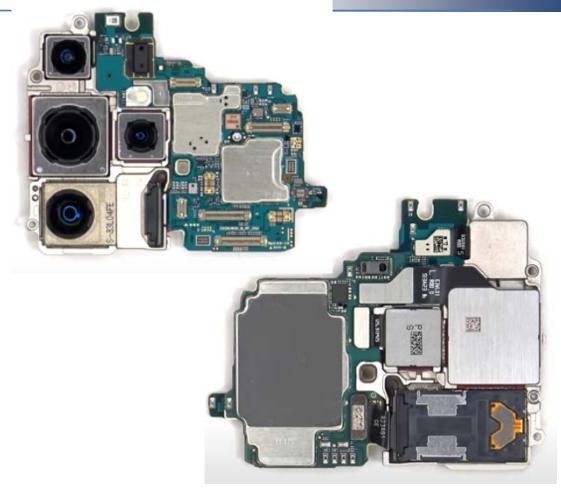
Lecture 00 Introduction to RF Systems

- 1. Smartphone
- 2. Smartphone Block Diagram
- 3. Semiconductors in Smartphones

1. Smartphone

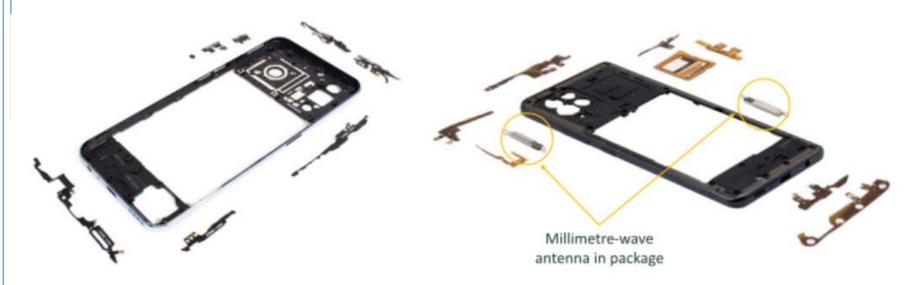
Samsung Galaxy S24 Ultra





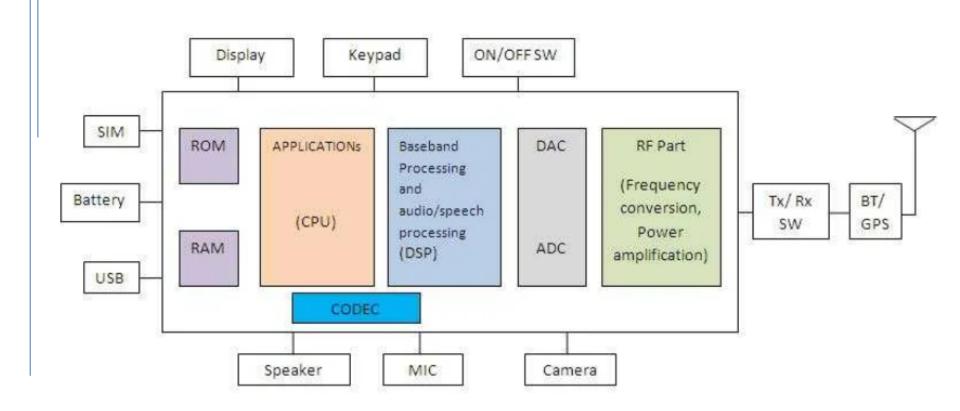


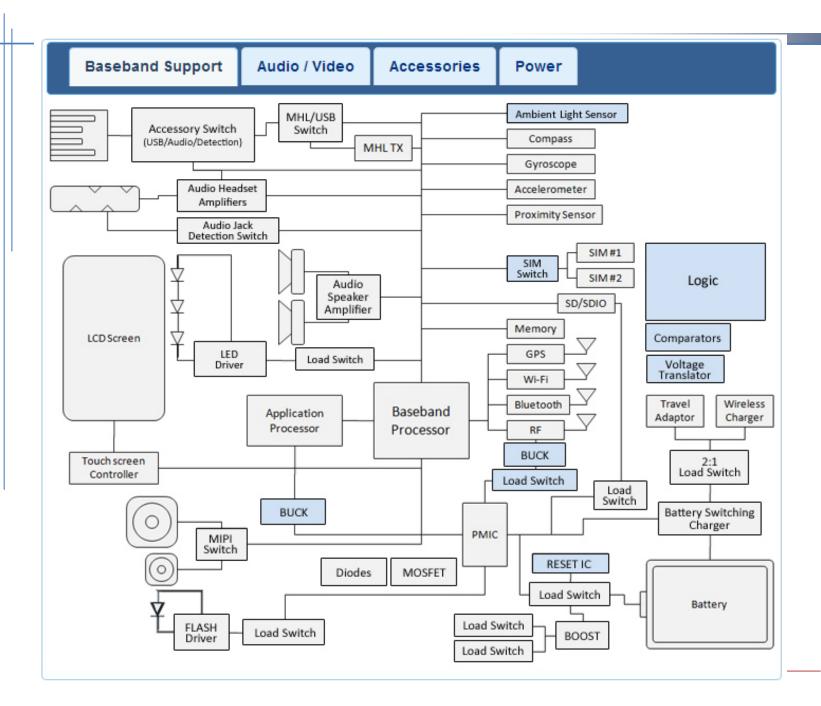
Samsung Galaxy A42 Antennas



Left: a set of sub-6 GHz antennas on flexible substrate corresponding to their placement on the mid-frame of the Realme GT. Right: array of antennas found in the Samsung Galaxy A42 including two millimetre-wave antennas in package

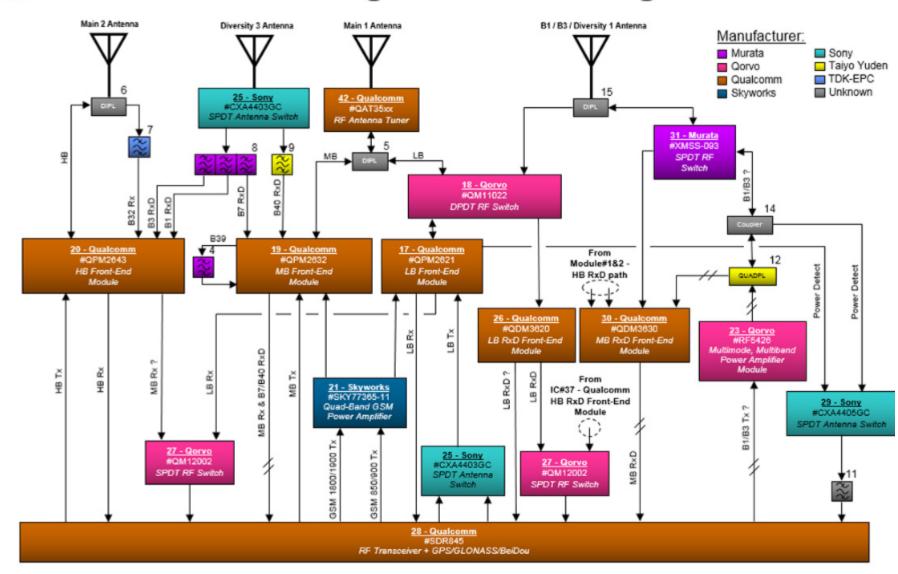
2. Smartphone Block Diagram







Block Diagram - Radio Design



3. Semiconductors in Smartphones

