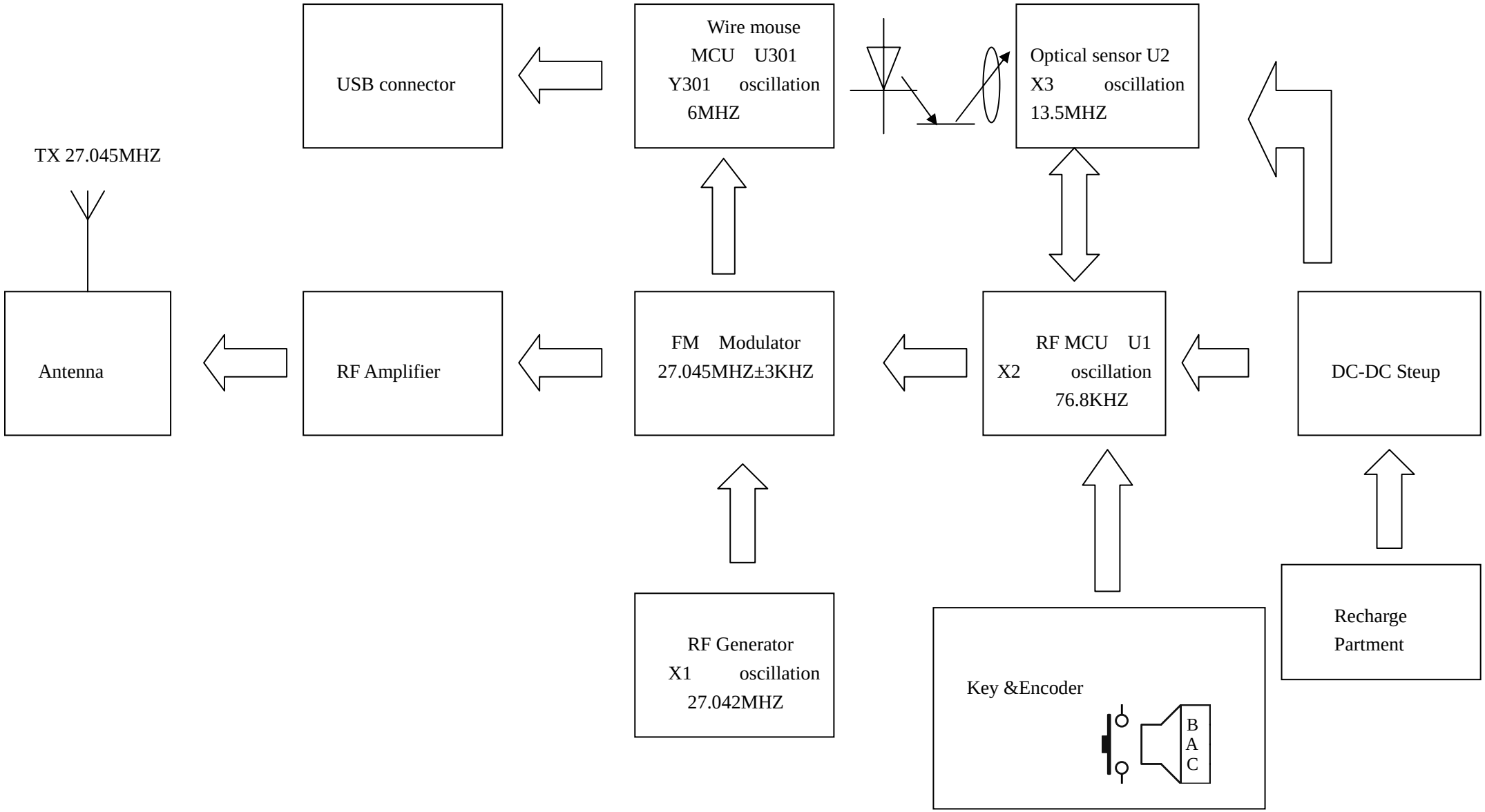TX Block Diagram