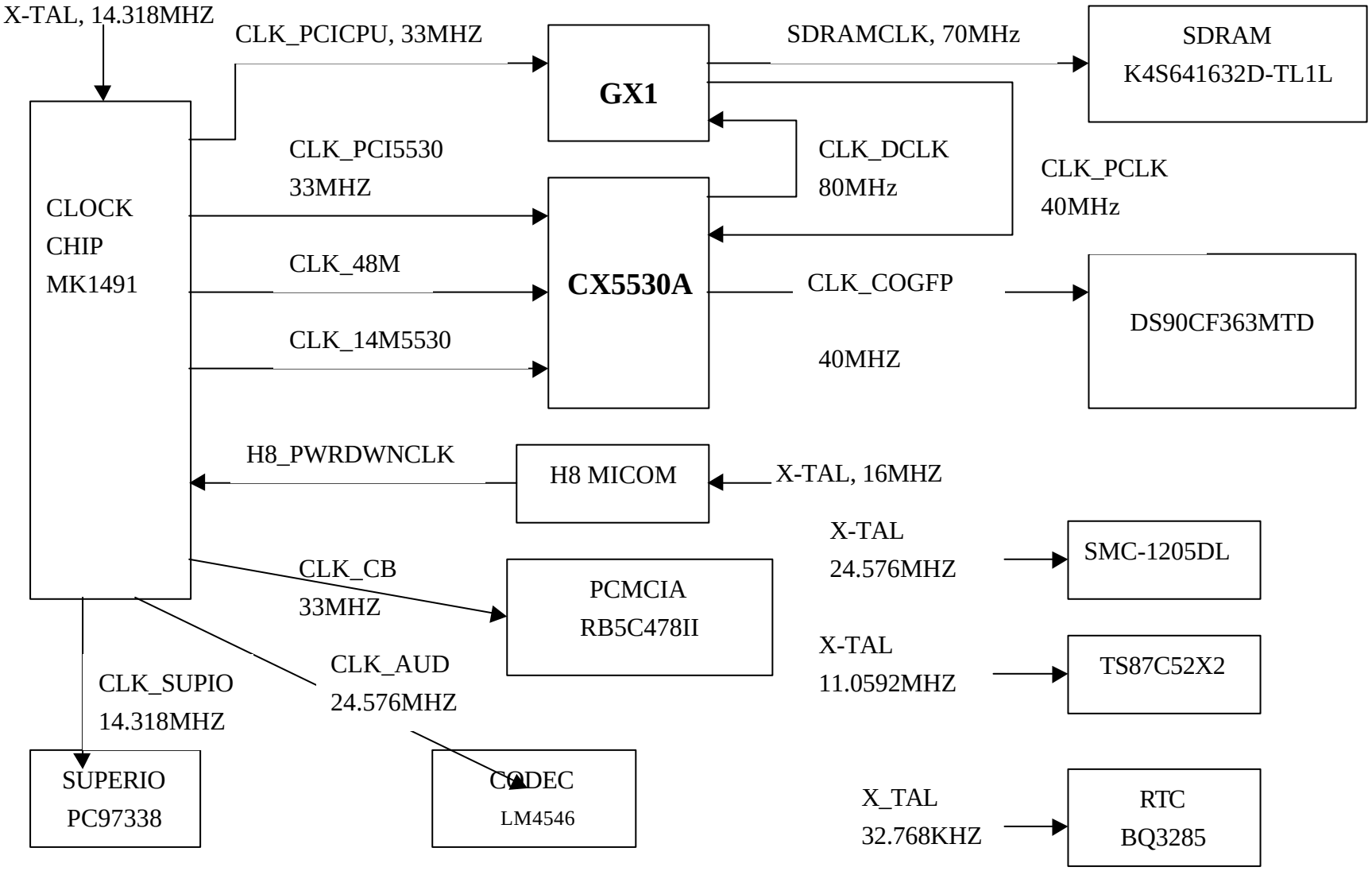S200 Block Diagram