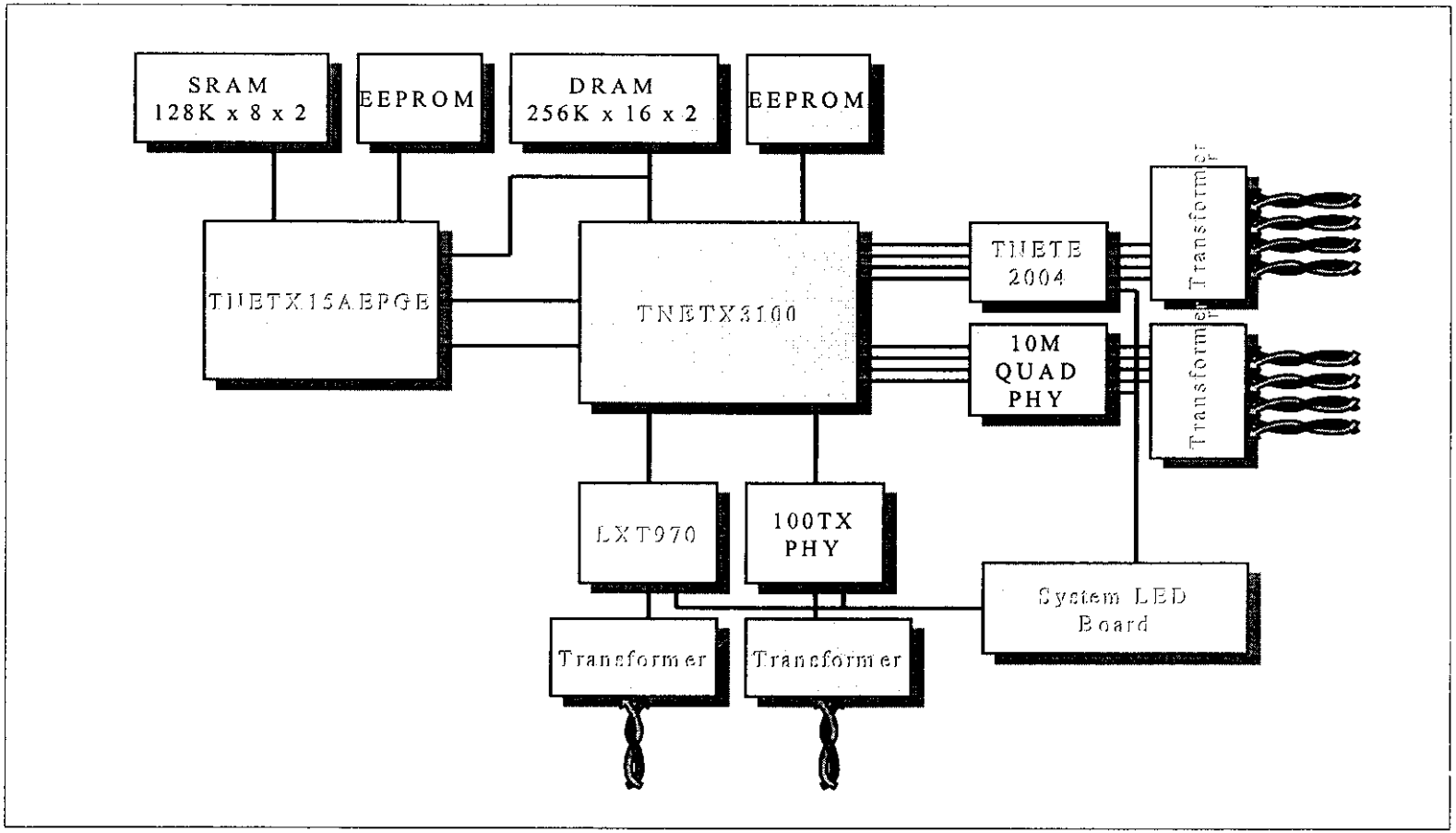RES-1002 Block Diagram