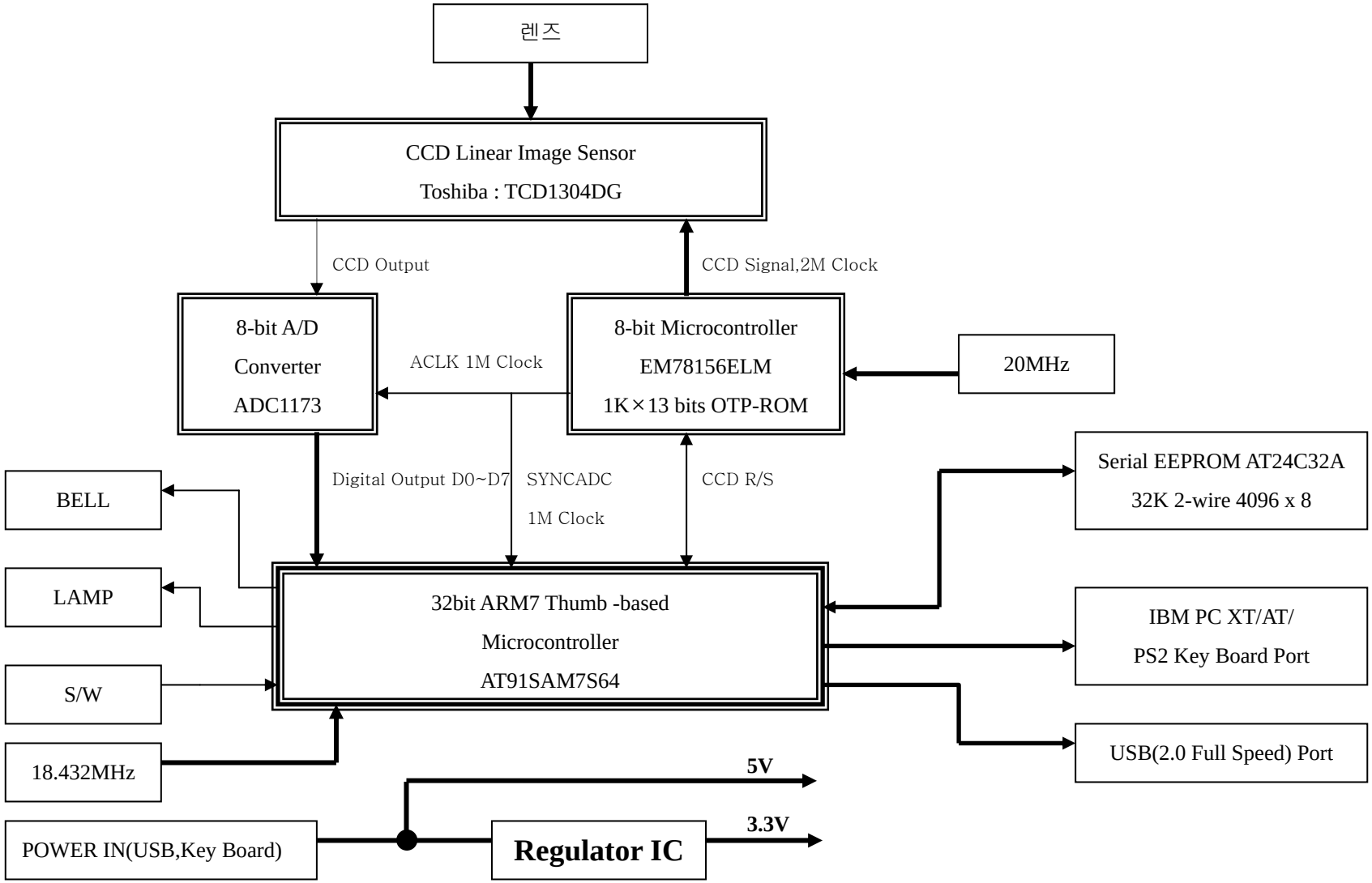DHS1000 Block Diagram