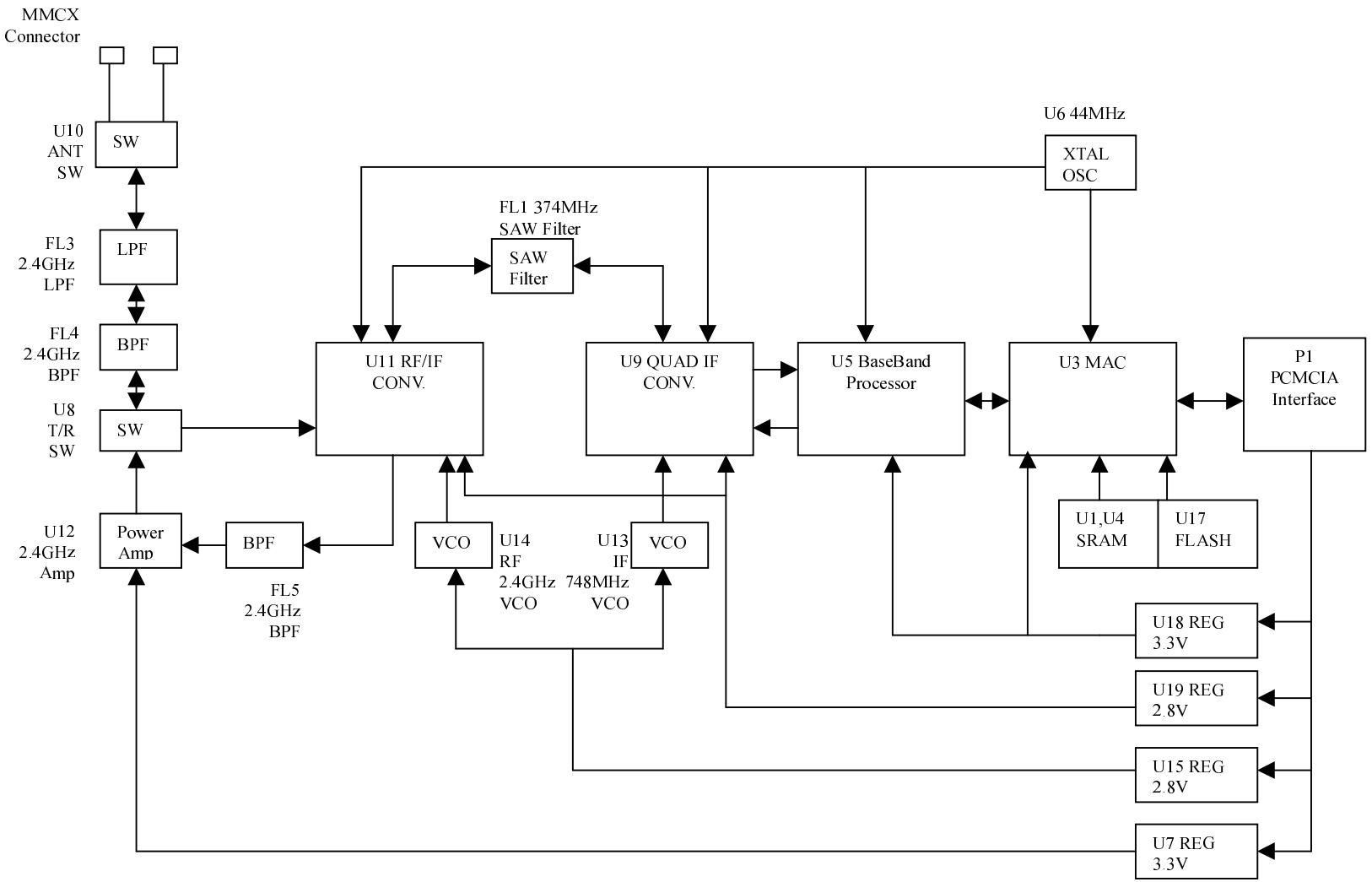WEN-2012 Block Diagram