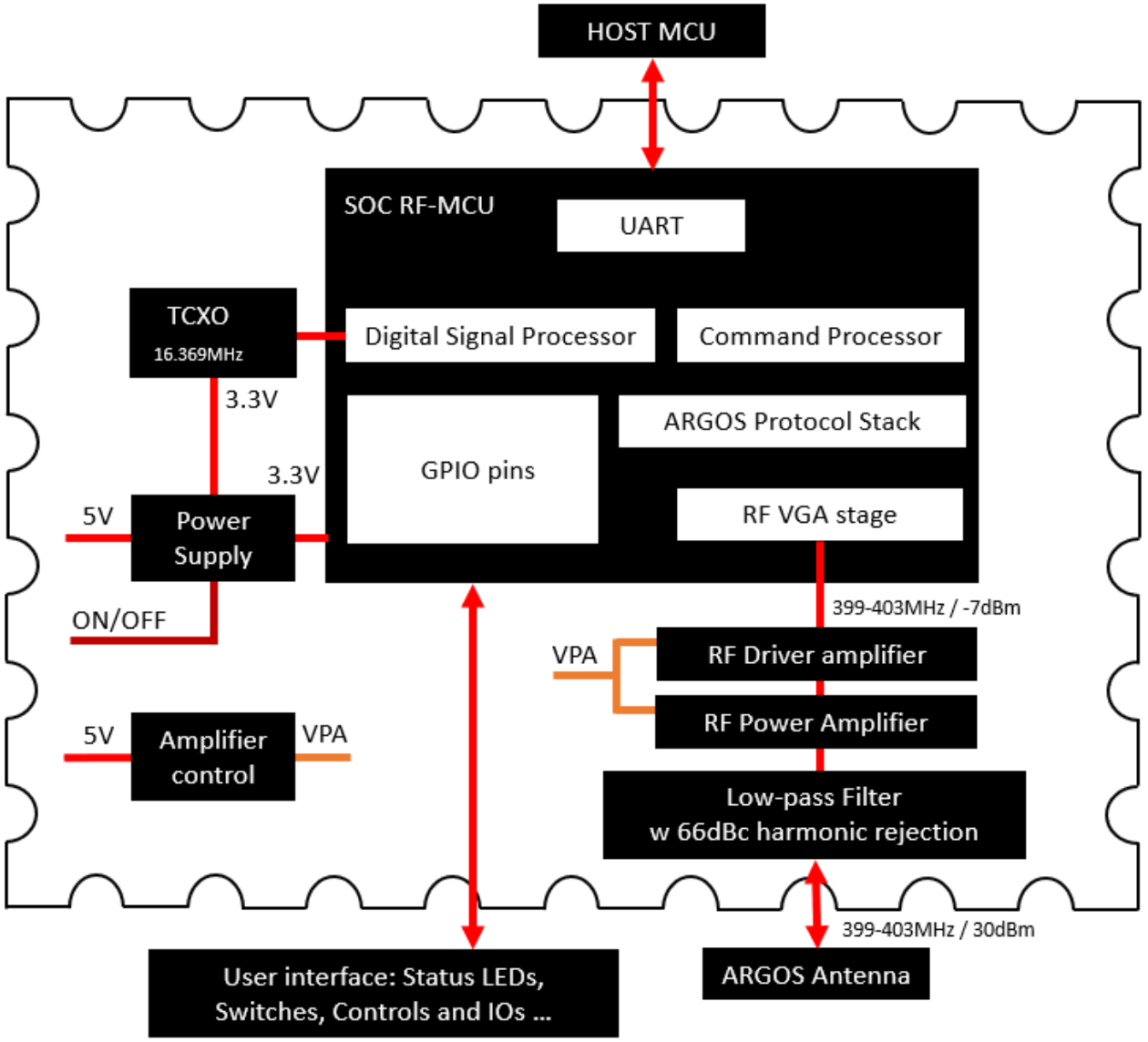KIM1 HW1.5 – BLOCK DIAGRAM