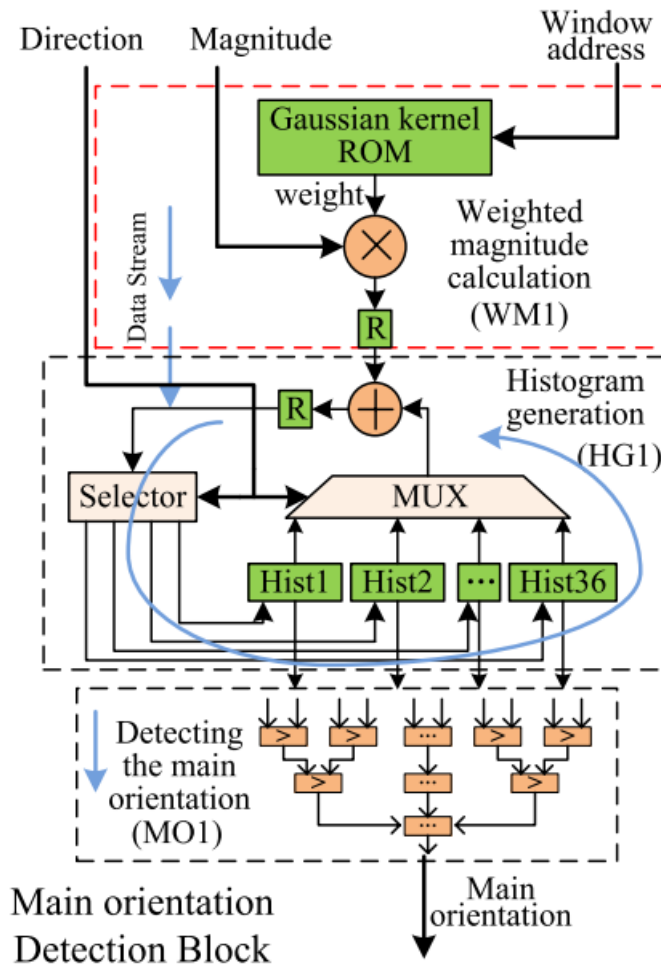
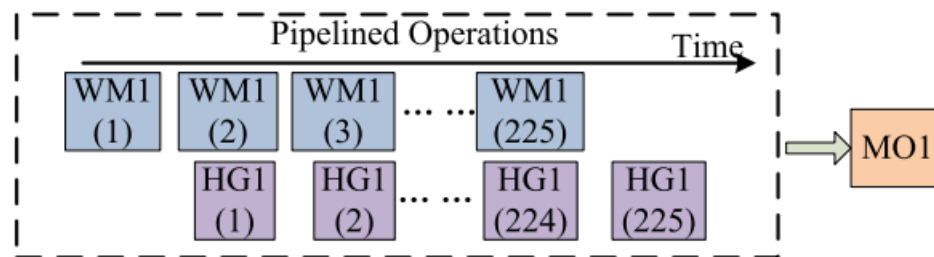
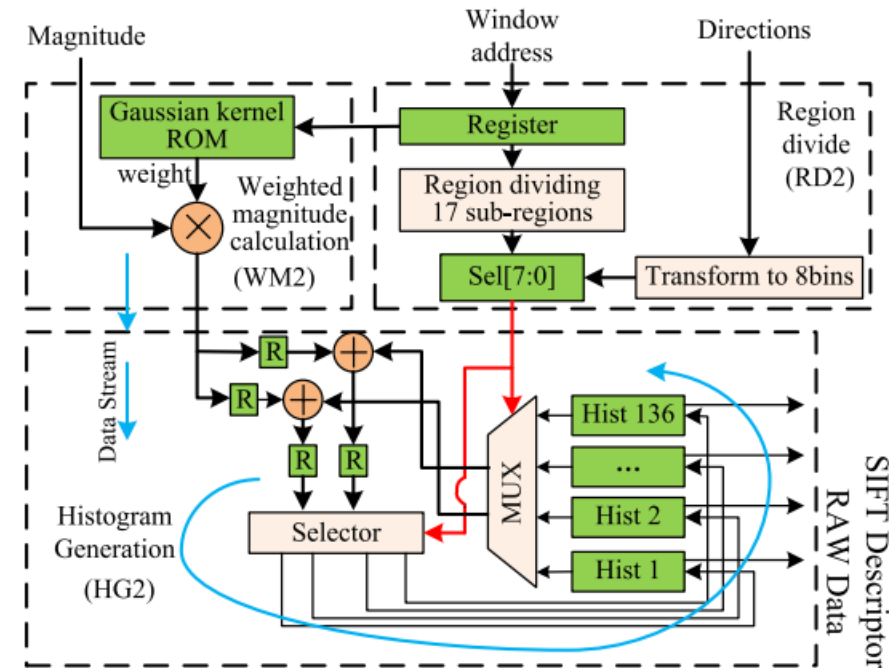
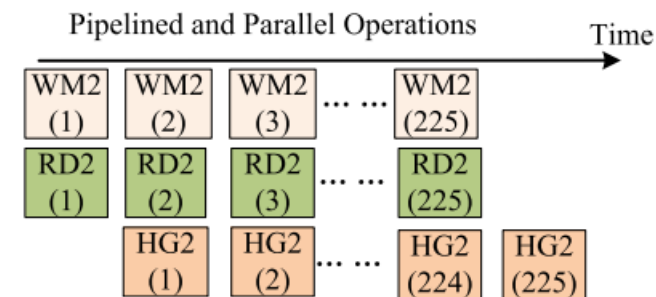


(a) Data window generator



(b) main orientation detection



(c) descriptor generation block