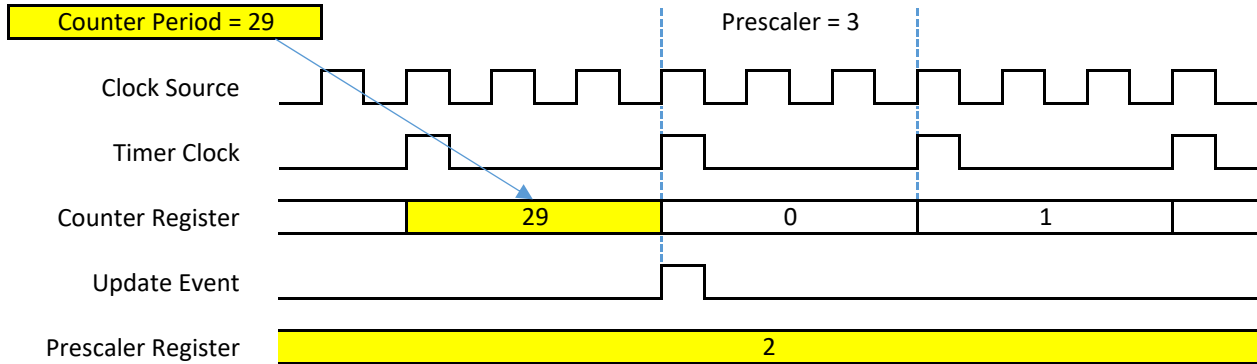
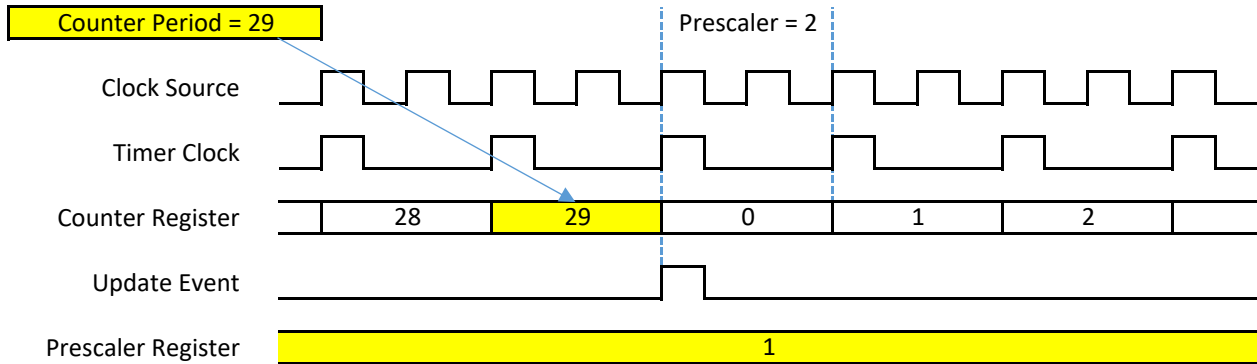
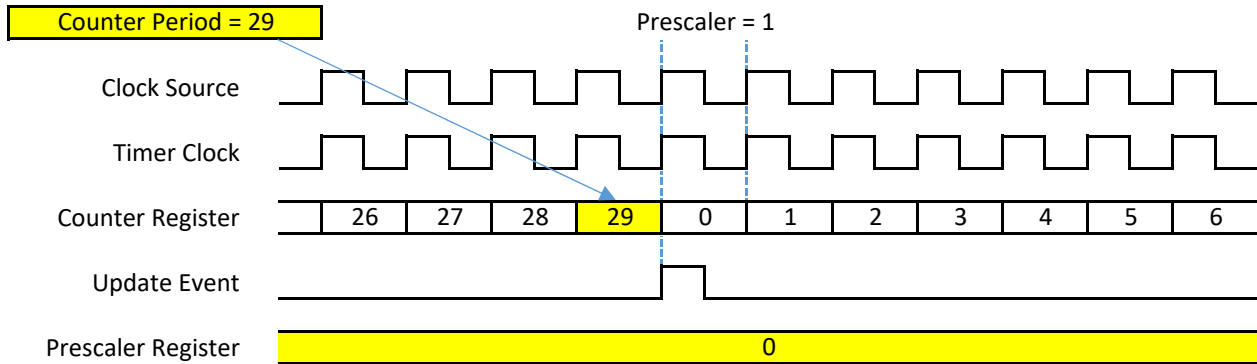


## Upcounting Mode



$$T_{\text{timer}} = T_{\text{clock\_source}} * \text{Prescaler}$$

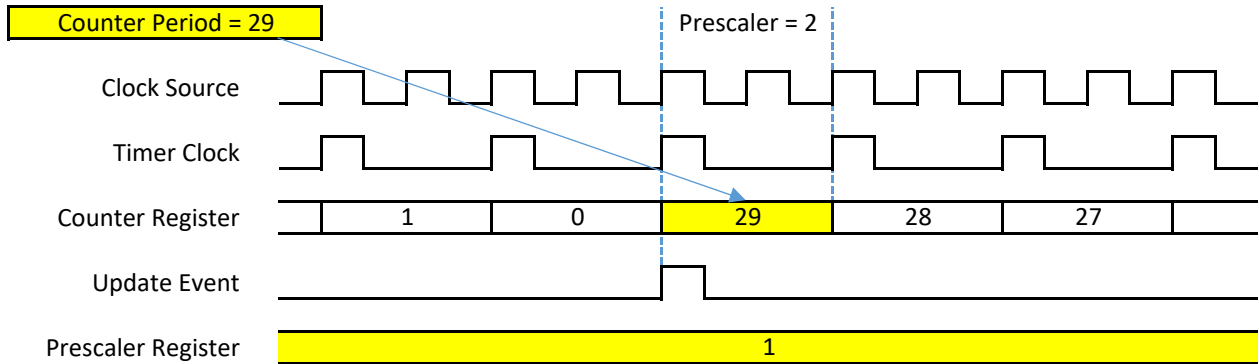
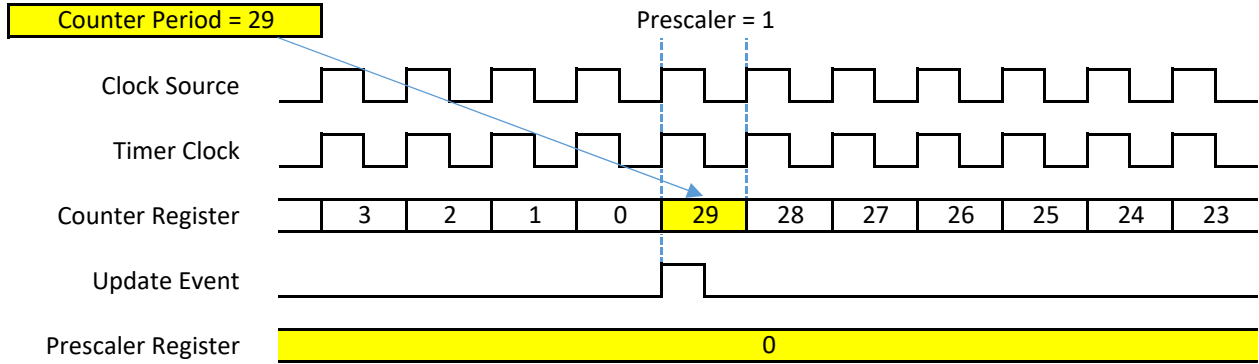
$$T_{\text{update}} = T_{\text{timer}} * (\text{Counter\_Period} + 1)$$

$$\Rightarrow T_{\text{update}} = T_{\text{clock\_source}} * \text{Prescaler} * (\text{Counter\_Period} + 1)$$

$$\Leftrightarrow f_{\text{clock\_source}} = f_{\text{update}} * \text{Prescaler} * (\text{Counter\_Period} + 1)$$

Giá trị cấu hình vào thanh ghi: **Prescaler\_Register = Prescaler - 1**  
 Giá trị cấu hình vào thanh ghi: **Counter\_Period\_Register = Counter\_Period**

### Downcounting Mode



### Center-aligned Mode

