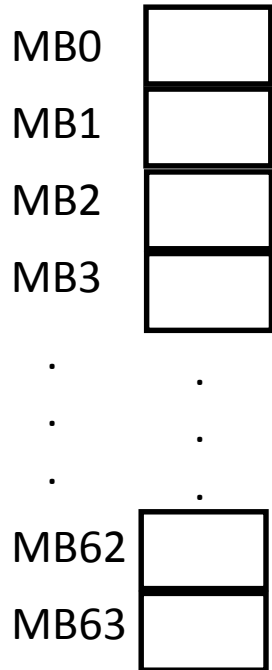


i.MX6SX FlexCAN filter settings



The following is the customer's understanding on CAN filter configuration of i.MX6SoloX.

The message buffer is as Figure-1 and one can use the buffer (from MB6) as filter table.

The filter is classified into two filters, written in below, and only matched data can be received.

- RX individual mask (FLEXCAN1_MCR[IRMQ]=1)
- RX FIFO Global mask

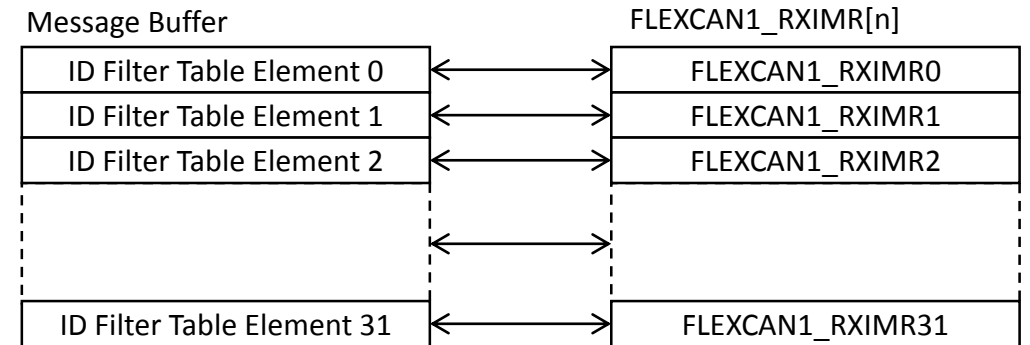
The buffer size used for the filter table is variable, and the size can be configured by setting of the following registers.

- FLEXCAN1_MCR[MAX_MB] : To where in 64 MB can be used.
- FLEXCAN1_CTRL2[RFFN] : Defines the location of the filter tables.

The format of ID filter table element is specified as Table 27-21 in reference manual of i.MX6SX(IMX6SXR, Rev.1).

The filter setting can be modified only while the flex-can module stops(Freeze mode).

- As for the specification of RX individual mask filter
 - One should set filter value into ID Filter Table Element[n], and should set mask value into corresponding FLEXCAN1_RXIMR[n].
 - The matched data with the filter setting can be received.



- As for the specification of RX FIFO Global mask filter
 - One should set filter value into ID Filter Table Element[n], and should set mask value into corresponding FLEXCAN1_RXFGMASK.
 - The matched data with the filter setting can be received.

