

CAN RX Filter

Details for selected row.

Configuration 0

Name

Read only

Number of buffers

Operation Mode

PE clock source

Enable FD

Buffer payload size

Module clock 48 MHz

PE clock 8 MHz

Bitrate to time segments

Bitrate configuration

Item	Propagation segment	Phase segment 1	Phase segment 2	Prescaler Division Factor	Resync
Data Phase	11	1	1	0	1

Enable Rx FIFO extension

RxFIFO ID filters number

RxFIFO ID filter format

```

int main(void)
{
    /*** Processor Expert internal initialization. DON'T REMOVE THIS CODE!!! ***/
    #ifdef PEX_RTOS_INIT
        PEX_RTOS_INIT();           /* Initialization of the selected RTOS. Macro is defined by the RTOS component. */
    #endif
    /*** End of Processor Expert internal initialization.          ***/

    /* Do the initializations required for this application */
    BoardInit();
    GPIOInit();

    CAN_Init(&can_pal1_instance, &can_pal1_Config0);

    /* Set information about the data to be sent
     * - Standard message ID
     * - Bit rate switch enabled to use a different bitrate for the data segment
     * - Flexible data rate enabled
     * - Use zeros for FD padding
     */
    can_buff_config_t buffCfg = {
        .enableFD = true,
        .enableBRS = true,
        .fdPadding = 0U,
        .idType = CAN_MSG_ID_STD,
        .isRemote = false
    };

    /* Configure RX buffer with index RX_MAILBOX */

    status_t status;
    uint8_t idx = 32;
    uint32_t i;

    for(i = 0; i < idx; i++)
    {
        CAN_ConfigRxBuff(&can_pal1_instance, i, &buffCfg, i + 1);
    }
}

```

```

while(1)
{
    /* Define receive buffer */
    can_message_t recvMsg;

    /* Start receiving data in RX_MAILBOX. */
    for(i = 0; i < idx; i++)
        CAN_Receive(&can_pall_instance, i, &recvMsg);

    status = 0xff;
    while(status != 0)
    {
        /* Wait until the previous FlexCAN receive is completed */
        for(i = 0; i < idx; i++)
        {
            status = CAN_GetTransferStatus(&can_pall_instance, i);
            if(status == 0)
                break;
        }
    }

    /* Check the received message ID and payload */
    if((recvMsg.data[0] == LED0_CHANGE_REQUESTED) &&
        recvMsg.id == RX_MSG_ID)
    {
        /* Toggle output value LED1 */
        PINS_DRV_TogglePins(GPIO_PORT, (1 << LED0));
    }
    else if((recvMsg.data[0] == LED1_CHANGE_REQUESTED) &&
        recvMsg.id == RX_MSG_ID)
    {
        /* Toggle output value LED0 */
        PINS_DRV_TogglePins(GPIO_PORT, (1 << LED1));
    }
}

/**/ Don't write any code pass this line, or it will be deleted during code generation. ***/
/**/ RTOS startup code. Macro PEX_RTOS_START is defined by the RTOS component. DON'T MODIFY THIS CODE!!! ***/
#ifdef PEX_RTOS_START
    PEX_RTOS_START(); /* Startup of the selected RTOS. Macro is defined by the RTOS component. */
#endif
/**/ End of RTOS startup code. ***/
/**/ Processor Expert end of main routine. DON'T MODIFY THIS CODE!!! ***/

```

```
/* Processor Expert end of main routine. DON'T MODIFY THIS TEXT!!! */
for(;;) {
    if(exit_code != 0) {
        break;
    }
}
return exit_code;
/** Processor Expert end of main routine. DON'T WRITE CODE BELOW!!! **/
} /** End of main routine. DO NOT MODIFY THIS TEXT!!! **/
```