CAN API 函数说明

*1. u8 FCanPs_init(FCanPs_T *dev, u32 id, u32 addr, u32 clk)*

描述	* @description Initialize can parameters.
参数	* @param dev is a pointer to the instance of can device. * @param id is id code odf can 0 or 1. * @param addr is the base address of can device. * @param clk is the operate clock of can.
返回值	* @return 0 if successful, otherwise 1.

*2. u8 FCanPs_setBaudRate(FCanPs_T *dev, u32 baud)*

描述	* @description * This function set can baud rate.
参数	* @param dev is a pointer to the instance of can device. * @param baud is baud rate value.
返回值	* @return 0 if successful, otherwise 1.

*3. u8 FCanPs_setStdACR(FCanPs_T *dev, u32 id, u8 ptr, u8 byte1, u8 byte2, enum filter_mode mode)*

描述	* This function set Acceptance Code Registers
参数	* @param dev is a pointer to the instance of can device. * @param id:11 bits

	* @param ptr: 0/1 0 -- remote frame, 1 -- data frame * @param byte1: * @param byte2: * @param mode: * single_filter * dual_filter
返回值	* @return 0 if successful, otherwise 1.

*4. u8 FCanPs_setEffACR(FCanPs_T *dev, u32 id, u8 ptr, u8 byte1, u8 byte2, enum filter_mode mode);*

描述	* This function set extended Acceptance Code Registers
参数	* @param dev is a pointer to the instance of can device. * @param id: 29 bits * @param ptr: 0/1 0 -- remote frame, 1 -- data frame * @param byte1: * @param byte2: * @param mode: * single_filter * dual_filter
返回值	* @return 0 if successful, otherwise 1.

*5. u8 FCanPs_setAMR(FCanPs_T *dev,u32 AMR0,u32 AMR1,u32 AMR2,u32 AMR3)*

描述	* This function set Acceptance Mask Registers
参数	* @param dev is a pointer to the instance of can device. * @param AMR0~3 * 0's in AMR0 – 3 identify the bits at the corresponding positions in ACR0 – 3

	* which must be matched in the message identifier, ‘1’s identify the corresponding bits * as ‘don’t care’.
返回值	* @return 0 if successful, otherwise 1.

*6. u8 FCanPs_setSleepMode(FCanPs_T *dev, enum FMSH_state state)*

描述	* This function set Sleep Mode
参数	* @param dev is a pointer to the instance of can device. * @param state: * FMSH_err = -1, * FMSH_clear = 0, * FMSH_set = 1
返回值	* @return 0 if successful, otherwise 1.

*7. u8 FCanPs_setListenOnlyMode(FCanPs_T *dev, enum FMSH_state state)*

描述	* This function set Listen Only Mode
参数	* @param dev is a pointer to the instance of can device. * @param state: * FMSH_err = -1, * FMSH_clear = 0, * FMSH_set = 1
返回值	* @return 0 if successful, otherwise 1.

*8. u8 FCanPs_setResetMode(FCanPs_T *dev, enum FMSH_state state)*

描述	* This function set Reset Mode

参数	* @param dev is a pointer to the instance of can device. * @param state: * FMSH_err = -1, * FMSH_clear = 0, * FMSH_set = 1
返回值	* @return 0 if successful, otherwise 1.

*9. u8 FCanPs_setSelfTestMode(FCanPs_T *dev, enum FMSH_state state)*

描述	* This function set Self Test Mode
参数	* @param dev is a pointer to the instance of can device. * @param state: * FMSH_err = -1, * FMSH_clear = 0, * FMSH_set = 1
返回值	* @return 0 if successful, otherwise 1.

*10. u8 FCanPs_setReceiveFilterMode(FCanPs_T *dev, enum filter_mode mode)*

描述	* This function set Acceptance Mask Mode
参数	* @param dev is a pointer to the instance of can device. * @param mode: * single_filter * dual_filter
返回值	* @return 0 if successful, otherwise 1.

*11. u32 FCanPs_getReceiveBufferStatus(FCanPs_T *dev)*

描述	* This function returns the status of Receive Buffer Status.
参数	* @param dev is a pointer to the instance of can device.
返回值	* @return status: 0/1

*12. u32 FCanPs_getDataOverrunStatus(FCanPs_T *dev)*

描述	* This function returns the status of Data Overrun Status.
参数	* @param dev is a pointer to the instance of can device.
返回值	* @return status: 0/1

*13. u32 FCanPs_getTransmitBufferStatus(FCanPs_T *dev)*

描述	* This function returns the status of Transmit Buffer Status.
参数	* @param dev is a pointer to the instance of can device.
返回值	* @return status: 0/1

*14. u32 FCanPs_getTransmissionCompleteStatus(FCanPs_T *dev)*

描述	* This function returns the status of Transmission Complete Status.
参数	* @param dev is a pointer to the instance of can device.
返回值	* @return status: 0/1

*15. u32 FCanPs_getReceiveStatus(FCanPs_T *dev)*

描述	* This function returns the status of Receive Status
参数	* @param dev is a pointer to the instance of can device.

返回值	* @return status: 0/1

*16. u32 FCanPs_getTtansmitStatus(FCanPs_T *dev)*

描述	* This function returns the status of Transmit Status
参数	* @param dev is a pointer to the instance of can device.
返回值	* @return status: 0/1

*17. u32 FCanPs_getErrorStatus(FCanPs_T *dev)*

描述	* This function returns the status of Error Status
参数	* @param dev is a pointer to the instance of can device.
返回值	* @return status: 0/1

*18. u32 FCanPs_getBusStatus(FCanPs_T *dev)*

描述	* This function returns the status of Bus Status
参数	* @param dev is a pointer to the instance of can device.
返回值	* @return status: 0/1

*19. u8 FCanPs_transmissionRequest(FCanPs_T *dev)*

描述	* This function set Transmission Request
参数	* @param dev is a pointer to the instance of can device.
返回值	* @return 0 if successful, otherwise 1.

*20. u8 FCanPs_abortTransmission(FCanPs_T *dev)*

描述	* This function set Abort Transmission
参数	* @param dev is a pointer to the instance of can device.
返回值	* @return 0 if successful, otherwise 1.

*21. u8 FCanPs_releaseReceiveBuffer(FCanPs_T *dev)*

描述	* This function set Release Receive Buffer
参数	* @param dev is a pointer to the instance of can device.
返回值	* @return 0 if successful, otherwise 1.

*22. u8 FCanPs_clearDataOverrun(FCanPs_T *dev)*

描述	* This function clears data overrun.
参数	* @param dev is a pointer to the instance of can device.
返回值	* @return 0 if successful, otherwise 1.

*23. u8 FCanPs_selfReceptionRequest(FCanPs_T *dev)*

描述	* This function set Self Reception Request
参数	* @param dev is a pointer to the instance of can device.
返回值	* @return 0 if successful, otherwise 1.

*24. u8 FCanPs_setReceiveInterrupt(FCanPs_T *dev, enum FMSH_state state)*

描述	* This function set Receive Interrupt
参数	* @param dev is a pointer to the instance of can device.

	* @param state: * FMSH_err = -1, * FMSH_clear = 0, * FMSH_set = 1
返回值	* @return 0 if successful, otherwise 1.

*25. u8 FCanPs_setTransmitInterrupt(FCanPs_T *dev, enum FMSH_state state)*

描述	* This function set Transmit Interrupt
参数	* @param dev is a pointer to the instance of can device. * @param state: * FMSH_err = -1, * FMSH_clear = 0, * FMSH_set = 1
返回值	* @return 0 if successful, otherwise 1.

*26. u8 FCanPs_setErrorWarningInterrupt(FCanPs_T *dev, enum FMSH_state state)*

描述	* This function set Error Warning Interrupt
参数	* @param dev is a pointer to the instance of can device. * @param state: * FMSH_err = -1, * FMSH_clear = 0, * FMSH_set = 1
返回值	* @return 0 if successful, otherwise 1.

*27. u8 FCanPs_setDataOverrunInterrupt(FCanPs_T *dev, enum FMSH_state state)*

描述	* This function set Data Overrun Interrupt
参数	* @param dev is a pointer to the instance of can device. * @param state: * FMSH_err = -1, * FMSH_clear = 0, * FMSH_set = 1
返回值	* @return 0 if successful, otherwise 1.

*28. u8 FCanPs_setWakeUpInterrupt(FCanPs_T *dev, enum FMSH_state state)*

描述	* This function set Wake-Up Interrupt
参数	* @param dev is a pointer to the instance of can device. * @param state: * FMSH_err = -1, * FMSH_clear = 0, * FMSH_set = 1
返回值	* @return 0 if successful, otherwise 1.

*29. u8 FCanPs_setErrorPassiveInterrupt(FCanPs_T *dev, enum FMSH_state state)*

描述	* This function set Error Passive Interrupt
参数	* @param dev is a pointer to the instance of can device. * @param state: * FMSH_err = -1, * FMSH_clear = 0,

	* FMSH_set = 1
返回值	* @return 0 if successful, otherwise 1.

*30. u8 FCanPs_setArbitrationLostInterrupt(FCanPs_T *dev, enum FMSH_state state)*

描述	* This function set Arbitration Loss Interrupt
参数	* @param dev is a pointer to the instance of can device. * @param state: * FMSH_err = -1, * FMSH_clear = 0, * FMSH_set = 1
返回值	* @return 0 if successful, otherwise 1.

*31. u8 FCanPs_setBusErrorInterrupt(FCanPs_T *dev, enum FMSH_state state)*

描述	* This function set Bus Error Interrupt
参数	* @param dev is a pointer to the instance of can device. * @param state: * FMSH_err = -1, * FMSH_clear = 0, * FMSH_set = 1
返回值	* @return 0 if successful, otherwise 1.

*32. u8 FCanPs_standardFrameTransmit(FCanPs_T *dev, u32 id,u8 *sbuf,u8 len,enum frame_type state)*

描述	* This function sends standard frame format message
参数	* @param dev is a pointer to the instance of can device.

	* @param id is 11 bits * @param sbuf is buffer of message data * @param len is length of message * @param state is a enum frame_type:data_frame or remote_frame
返回值	* @return 0 if successful, otherwise 1.

*33. u8 FCanPs_extendedFrameTransmit(FCanPs_T *dev, u32 id,u8 *sbuf,u8 len,enum frame_type state)*

描述	* This function sends extended frame format message.
参数	* @param dev is a pointer to the instance of can device. * @param id is 11 bits * @param sbuf is buffer of message data * @param len is length of message * @param state is a enum frame_type:data_frame or remote_frame
返回值	* @return 0 if successful, otherwise 1.

*34. u8 FCanPs_frameReceive(FCanPs_T *dev, u8 *rbuf)*

描述	* This function receives message, read the receive buffer data.
参数	* @param dev is a pointer to the instance of can device. * @param rbuf is buffer of message data to readback into
返回值	* @return 0 if successful, otherwise 1.

*35. u32 FCanPs_getInterrupt(FCanPs_T *dev)*

描述	* This function returns Interrupt Register value.
参数	* @param dev is a pointer to the instance of can device.

返回值	* @return value of inerrupt register.