Eeprom Terminal Application

ECUAL

Eeprom 24

Serial Terminal

MCAL

I2C

UART

Hardware (Microcontroller)

App

App_Status_t **App_init**(void);

App_Status_t **App_update**(void);

Eeprom

enuEeprom_24_Status_t **Eeprom_24_init**(void);

enuEeprom_24_Status_t **Eeprom_24_writeByte**(uint16_t **u16_location**, uint8_t **u8_data**);

enuEeprom_24_Status_t **Eeprom_24_readByte**(uint16_t **u16_location**, uint8_t* **pu8_data**);

enuEeprom_24_Status_t **Eeprom_24_writePage**(uint8_t **u8_page**, uint8_t ***pu8_data**)

enuEeprom_24_Status_t **Eeprom_24_readPage**(uint8_t **u8_page**, uint8_t ***pu8_data**)

enuEeprom_24_Status_t **Eeprom_24_writePacket**(uint16_t **u16_location**, uint8_t ***pu8_data**, uint16_t **u16_dataLen**)

enuEeprom_24_Status_t **Eeprom_24_readPacket**(uint16_t **u16_location**, uint8_t ***pu8_data**, uint16_t **u16_dataLen**)

u16_location, uint8_t ***pu8_data**, uint16_t **u16_dataLen**)

Terminal

Terminal_Status_t **Terminal_init**(void);

Terminal_Status_t **Terminal_Out**(uint8_t **u8_TerminalID);**

Terminal_Status_t **Terminal_In**(uint8_t **u8_TerminalID);**

I2C

enuI2C_Status_t **I2C_MasterInit**(void);

enuI2C_Status_t **I2C_MasterSendToLocation**(uint8_t **u8_slaveAddress**, uint8_t **u8_location** ,uint8_t *** pu8_data**, uint16_t **u16_dataLen**);

enuI2C_Status_t **I2C_MasterReceiveFromLocation**(uint8_t **u8_slaveAddress**, uint8_t **u8_location** ,uint8_t *** pu8_data**, uint16_t **u16_dataLen)**;

Uart

enuUart_Status_t **Uart_init**(void);

enuUart_Status_t **Uart_sendByte**(uint8_t u8_Data);

enuUart_Status_t **Uart_sendPacket**(uint8_t *pu8_Data, uint16_t u16_packetSize);

enuUart_Status_t **Uart_receiveByte**(uint8_t *pu8_Data);

enuUart_Status_t **Uart_receivePacket**(uint8_t *pu8_Data, uint16_t u16_packetSize);

enuUart_Status_t **Uart_EnableNotification_TXC**(pfUart_CallBack_t Uart_Callback);

enuUart_Status_t **Uart_EnableNotification_RXC**(pfUart_CallBack_t Uart_Callback);

enuUart_Status_t **Uart_EnableNotification_UDRE**(pfUart_CallBack_t Uart_Callback);

enuUart_Status_t **Uart_DisableNotification**(uint8_t u8_InterruptFlags);

uint8_t **Uart_DataRegister**(void);