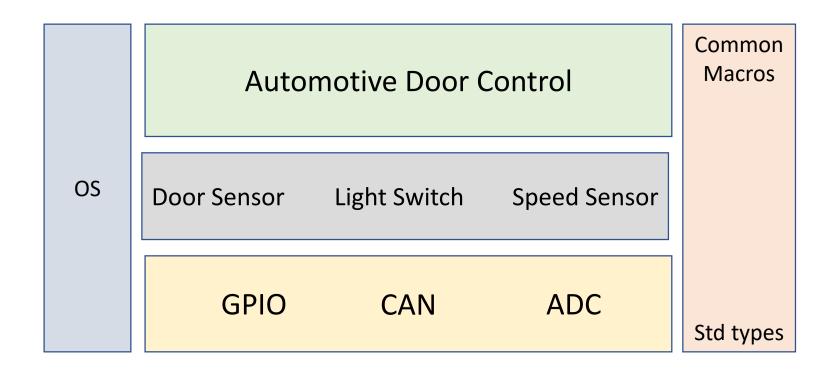
ECU 1



GPIO

API – Types

Gpio_ChannelType

Gpio_PortType

Gpio_LevelType

Gpio_PortLevelType

API - Functions

void GPIO_Init(const Gpio_ConfigType * ConfigPtr)

Gpio LevelType GPIO ReadChannel(Gpio ChannelType ChannelID)

void GPIO_WriteChannel(Gpio_ChannelType ChannelID, Gpio_LevelType Level)

Gpio_LevelType GPIO_FlipChannel(Gpio_ChannelType ChannelID);

Gpio_PortLevelType GPIO_ReadPort(Gpio_PortType PortID)

void GPIO_WritePort(Gpio_PortType PortID, Gpio_PortLevelType Level)

Configurations

- PortPinMode
- PortPinLevelValue
- PortPinDirection
- PortPinInternalAttach

CAN

API – Types

Can_ConfigType "Structure"

API – Functions

void Can_Init(const Can_ConfigType* Config)

Std_ReturnType Can_SetBaudrate(uint8 Controller, uint16 BaudRateConfigID)

Std_ReturnType Can_SetControllerMode(uint8 Controller, Can_ControllerStateType Transition)

void Can_MainFunction_Write(void)

void Can_MainFunction_Read(void)

ADC

API – Types

ADC_ConfigType "Structure"

ADC_Prescalar

ADC_RefVolatge

API – Functions

void ADC_Init(const ADC_ConfigType * Config_Ptr);

uint32 ADC_readChannel(uint8 CH_num);



API Types

GPT_ConfigType Structure Implemenation

GPT_ValueType uint8

API Functions

void Timer_Init(const GPT_ConfigType * Config_Ptr)

void Timer_Start(GPT_ValueType Value)

void Timer_Stop(GPT_ValueType Value)

Door Sensor

Must include "GPIO Driver"



void D_Init(void)

uint8 D_ReadLevel(Gpio_ChannelType ChannelID)

Light Switch

Must include "GPIO Driver"

API – Functions

void L_Init(void)

uint8 L_GetState(Gpio_ChannelType ChannelID)

Speed Sensor

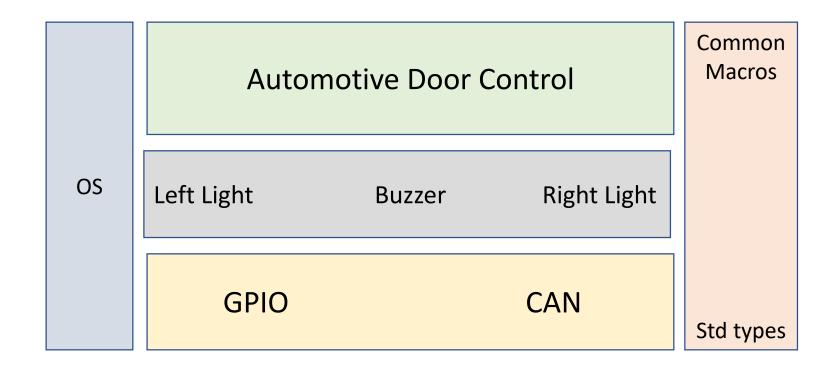
Must include "ADC Driver"

API – Functions

void S_Init(void)

uint8 S_ReadValue(uint8 ADC_Channel)

ECU 2



GPIO

API – Types

Gpio_ChannelType

Gpio_PortType

Gpio_LevelType

Gpio_PortLevelType

API - Functions

void GPIO_Init(const Gpio_ConfigType * ConfigPtr)

Gpio_LevelType GPIO_ReadChannel(Gpio_ChannelType ChannelID)

void GPIO_WriteChannel(Gpio_ChannelType ChannelID, Gpio_LevelType Level)

Gpio_LevelType GPIO_FlipChannel(Gpio_ChannelType ChannelID);

Gpio_PortLevelType GPIO_ReadPort(Gpio_PortType PortID)

void GPIO_WritePort(Gpio_PortType PortID, Gpio_PortLevelType Level)

Configurations

- PortPinMode
- PortPinLevelValue
- PortPinDirection
- PortPinInternalAttach

CAN

API – Types

Can_ConfigType "Structure"

API – Functions

void Can_Init(const Can_ConfigType* Config)

Std_ReturnType Can_SetBaudrate(uint8 Controller, uint16 BaudRateConfigID)

Std_ReturnType Can_SetControllerMode(uint8 Controller, Can_ControllerStateType Transition)

void Can_MainFunction_Write(void)

void Can_MainFunction_Read(void)



API Types

GPT_ConfigType Structure Implemenation

GPT_ValueType uint8

API Functions

void Timer_Init(const GPT_ConfigType * Config_Ptr)

void Timer_Start(GPT_ValueType Value)

void Timer_Stop(GPT_ValueType Value)

Left Light Must include "GPIO Driver"

API – Functions

void LL_ON(Gpio_ChannelType ChannelID)

void LL_OFF(Gpio_ChannelType ChannelID)

Buzzer

Must include "GPIO Driver"

API – Functions

void B_ON(Gpio_ChannelType ChannelID)

void B_OFF(Gpio_ChannelType ChannelID)

Right Light

Must include "GPIO Driver"

API – Functions

void RL_ON(Gpio_ChannelType ChannelID)

void RL_OFF(Gpio_ChannelType ChannelID)