

# Common Resources

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# Internal Communication Lines

The device is equipped with multiple internal communication lines of the following types:

- [SPI](#)
- [I2C](#)
- [UART](#)

## SPI

The device is equipped with the following SPI communication lines.

### SPI1

Signal	Processor pin	Default function
Chip select 0	AD18	SPI1_CS0
Chip select 1	AG23	SPI1_CS1
Master in slave out	A7	SPI1_MISO
Clock	D6	SPI1_SCLK
Master out slave in	B7	SPI1_MOSI

### SPI2

Signal	Processor pin	Default function
Chip select 0	A6	SPI2_CS0
Chip select 1	AF12	SPI2_CS1
Chip select 2	AB19	SPI2_CS2
Master in slave out	A8	SPI2_MISO

Signal	Processor pin	Default function
Clock	E6	SPI2_SCLK
Master out slave in	B8	SPI2_MOSI

## I2C

The device is equipped with the following I2C communication lines.

### I2C2

Device name: **/dev/i2c-1**

Signal	Processor pin	Default function
Clock	D10	I2C2_SCL
Data	D9	I2C2_SDA

### I2C3

Device name: **/dev/i2c-2**

Signal	Processor pin	Default function
Clock	E10	I2C3_SCL
Data	F10	I2C3_SDA

### I2C4

Device name: **/dev/i2c-3**

Signal	Processor pin	Default function
Clock	D13	I2C4_SCL
Data	E13	I2C4_SDA

## UART

The device is equipped with the following UART communication lines.

# UART1

Device name: **/dev/ttymxc0**

Signal	Processor pin	Default function
Receive (UART1 RX)	E14	UART1_RXD
Transmit (UART1 TX)	F13	UART1_TXD

# UART2

Device name: **/dev/ttymxc1**

Signal	Processor pin	Default function
Receive (UART2 RX)	X	UART2_RXD
Transmit (UART2 TX)	X	UART2_TXD

# UART3

Device name: **/dev/ttymxc2**

Signal	Processor pin	Default function
Receive (UART3 RX)	E18	UART3_RXD
Transmit (UART3 TX)	D18	UART3_TXD

# UART4

Device name: **/dev/ttymxc3**

Signal	Processor pin	Default function
Receive (UART4 RX)	F19	UART4_RXD
Transmit (UART4 TX)	F18	UART4_TXD

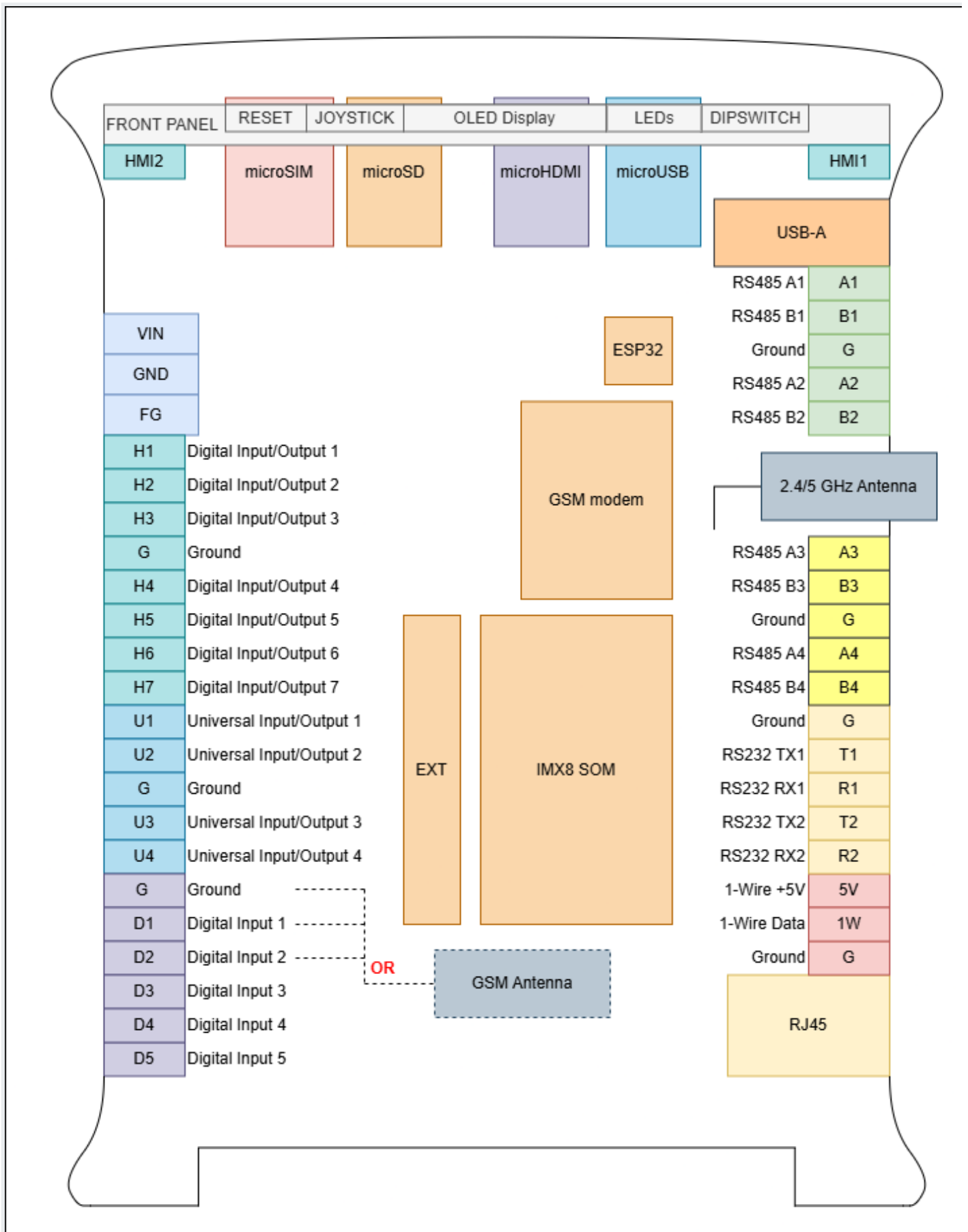
# Introduction

## Tiger City IMX Industrial Computer with Linux OS

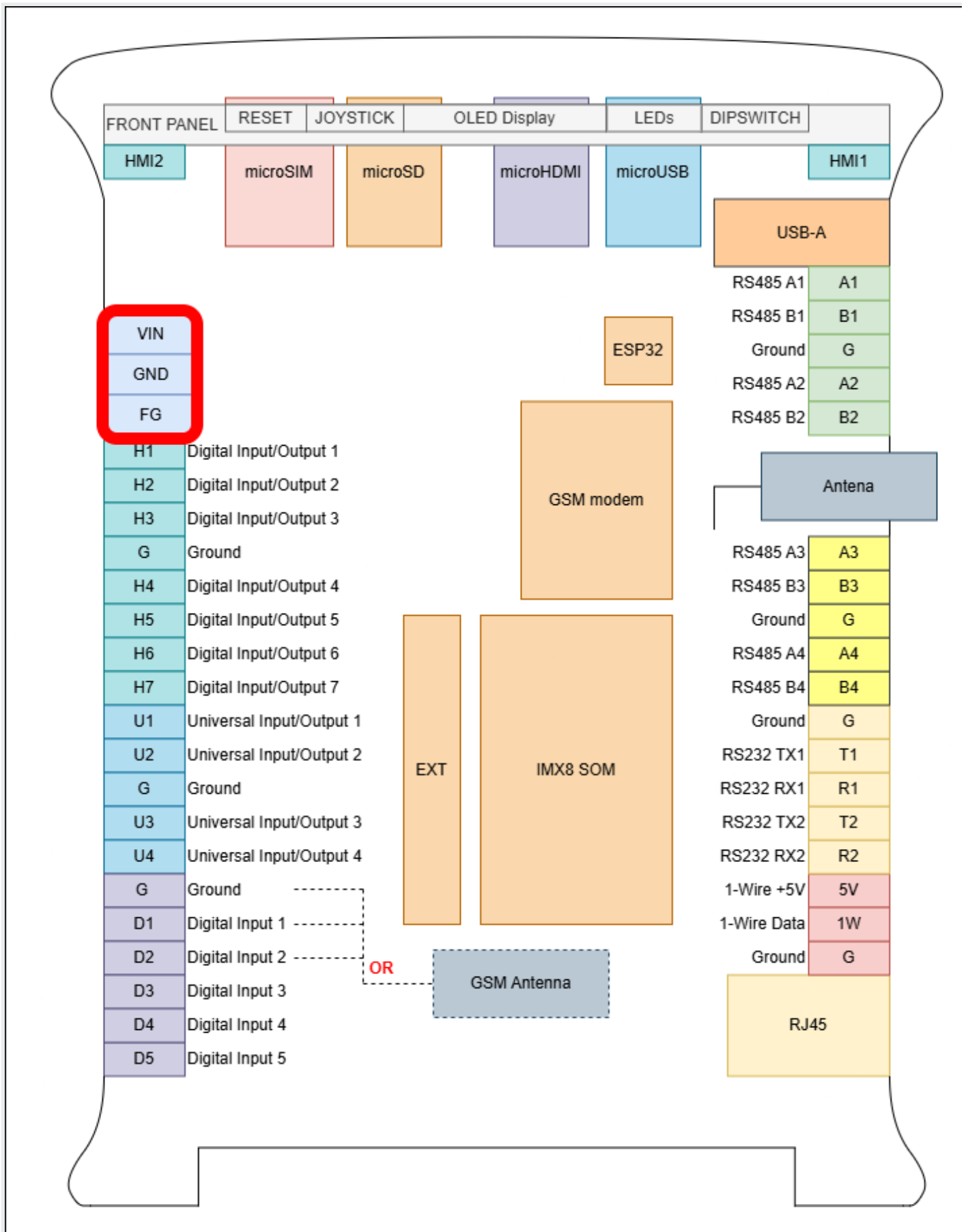
The Tiger City IMX minicomputer uses Linux operating systems and is equipped with several communication interfaces such as: Ethernet, USB 2.0, HDMI, GSM, RS232, RS485, 1-Wire and multiple analog-digital inputs and outputs. It can also be configured to include a Wi-Fi module and encryption modules that increase the security of the device. The casing enables installation on the DIN rail. The front panel has switches, an OLED display and a joystick for manual control of the device operation.

# Drawings

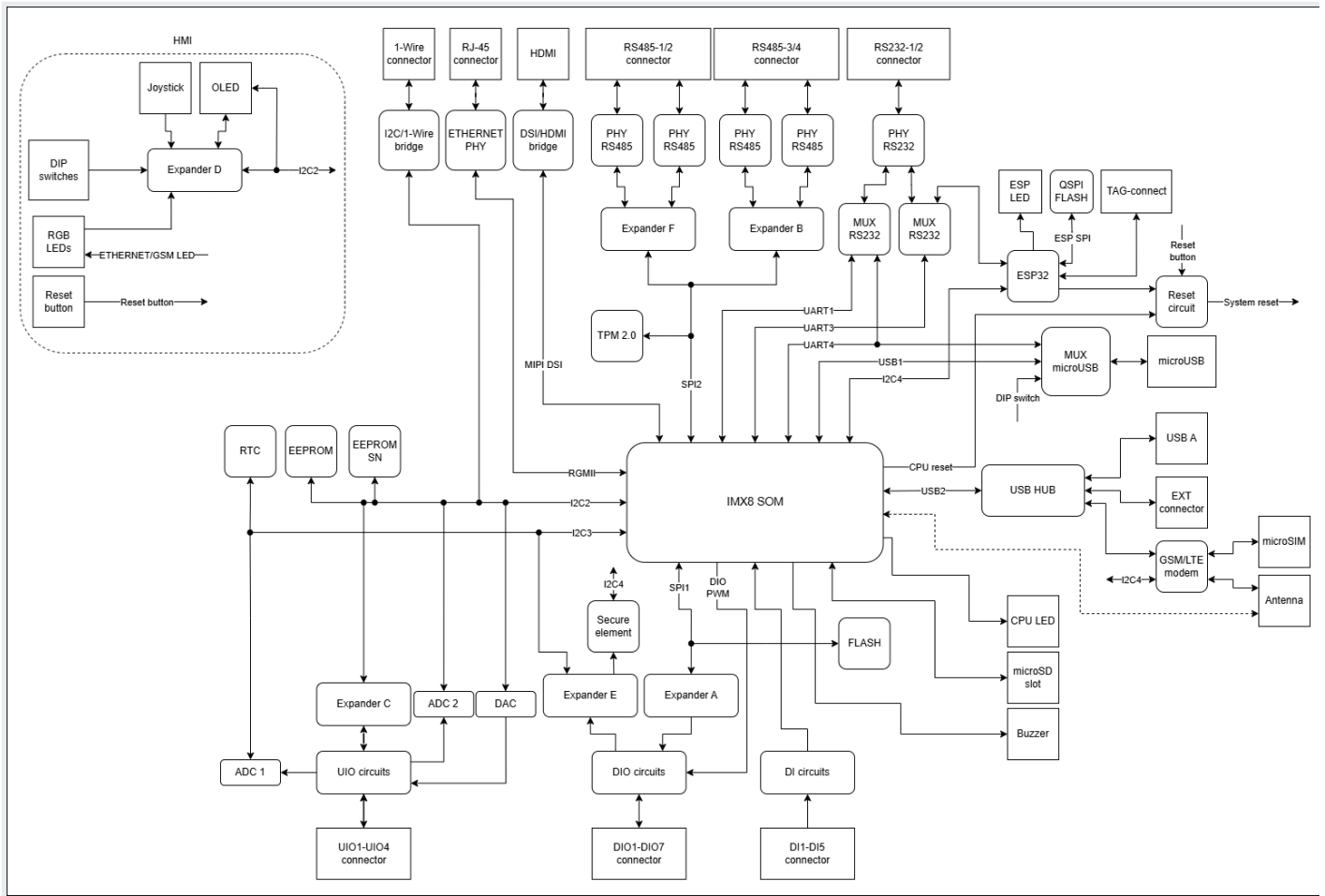
Placement of peripherals



## Power supply



Detailed connections diagram



# Enclosure

