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Smart serial port tft lcd module description

CJS serial smart serial port is designed based on the UART asynchronous communication port of the internal processor, There are three types of serial level interfaces available: TTL level interface, RS232 level interface, RS485 level interface.

1.TTL level interface

The TTL level interface is the TX and RX pins of the UART interface directly derived from the processor.

If the customer chooses this interface, it can directly communicate with the UART interface of the customer processor (TTL level voltage up to + 3.3V).

The TTL interface only supports one-to-one communication, not one-to-many or many-to-one communication.

The TTL interface wiring method is as follows:



MCU UART I/F

TX — RX
RX — TX
GND — GND



TTL I/F

TTL interface wiring

2. RS232 Level interface

RS232 level interface is the level output interface of the processor's UART interface converted by a dedicated level conversion IC, This IC converts TTL level to RS232 level, and the pins are TXD, RXD, GND.

If the customer chooses the RS232 level interface, the customer's control end also needs to be an RS232 level interface, and the RS232 interface only supports one-to-one communication, not one-to-many or many-to-one communication.

RS232 wiring method is as follows:



MCU UART TO RS232 I/F

TXD — RXD
RXD — TXD
GND — GND



RS232 I/F

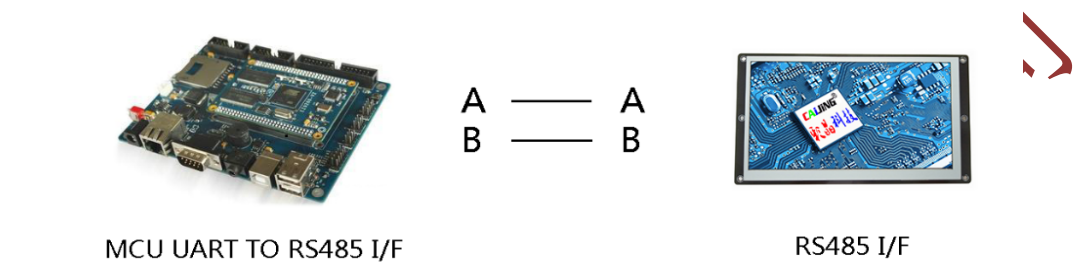
RS232 interface wiring method

3. RS485 level interface

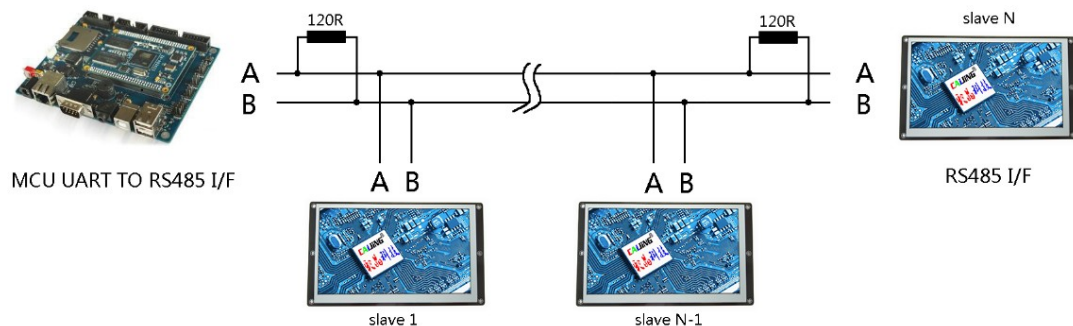
RS485 level interface is the level output interface of the processor's UART interface after conversion by a dedicated level conversion IC. This IC converts TTL level to RS485 level, and the lead pins are A, B.

If the customer chooses the RS485 level interface, the customer's control end also needs to be an RS485 level interface. RS485 interface supports one-to-one communication, and can also be used in multiple serial port tft lcd display module.

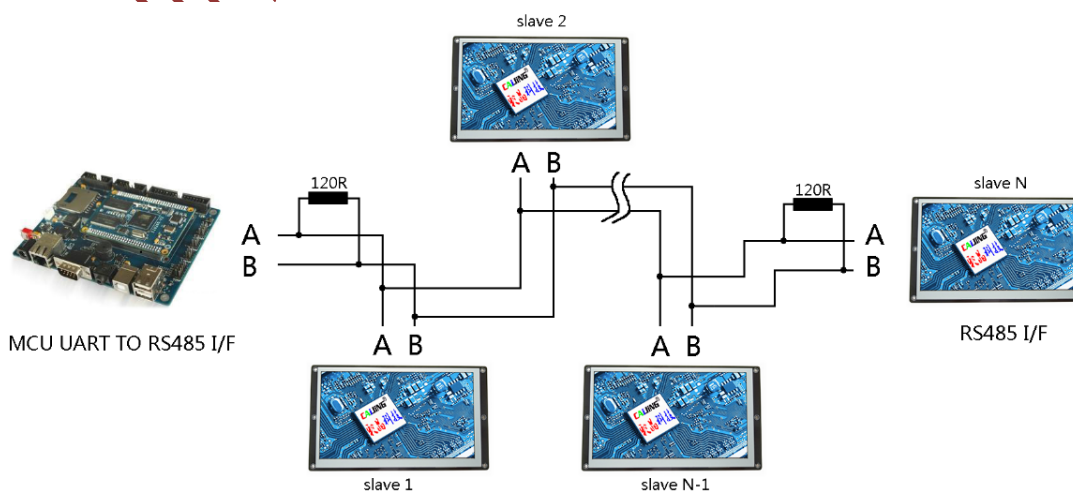
RS485 interface wiring method is as follows:



RS485 interface wiring method -method 1



RS485 interface wiring method -method 2



RS485 interface wiring method -method 3