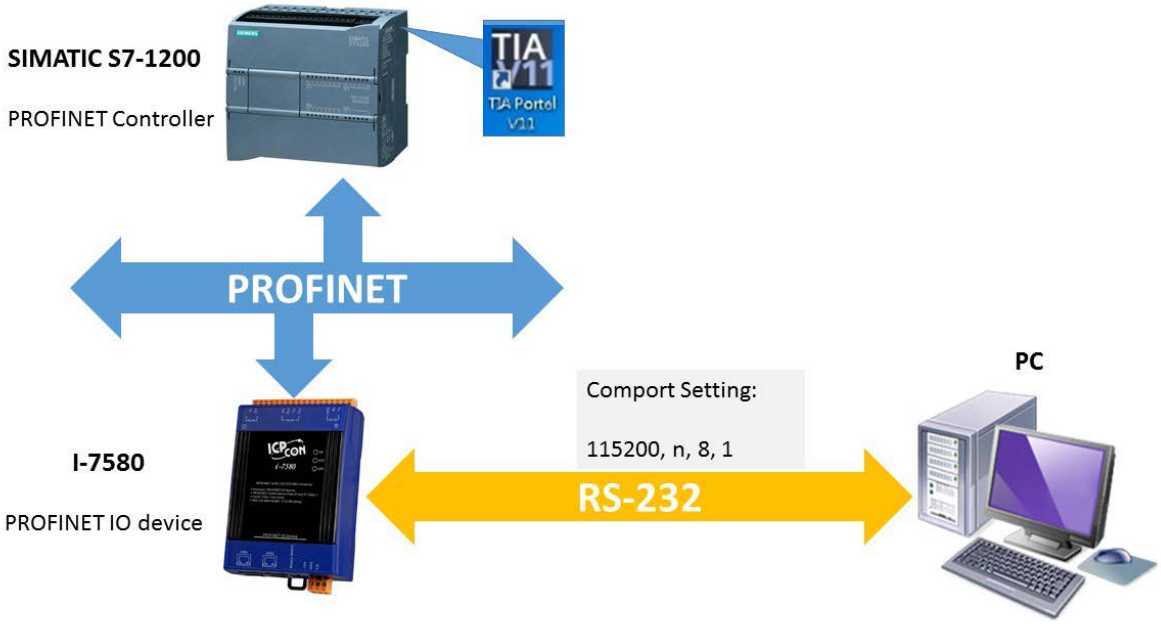
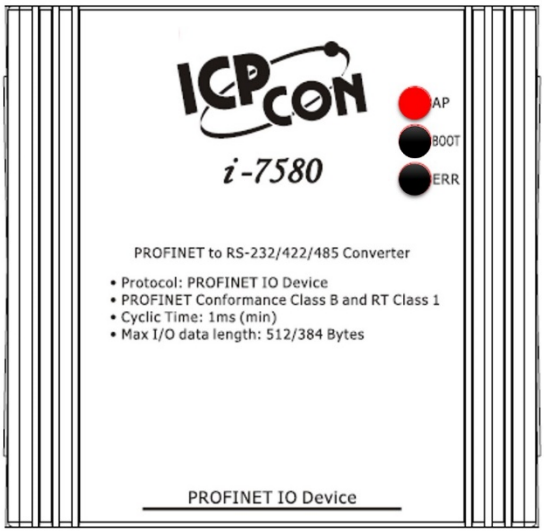
# How to Transmit/Receive data at SIMATIC TIA portal?

## 1. Hardware Configuration

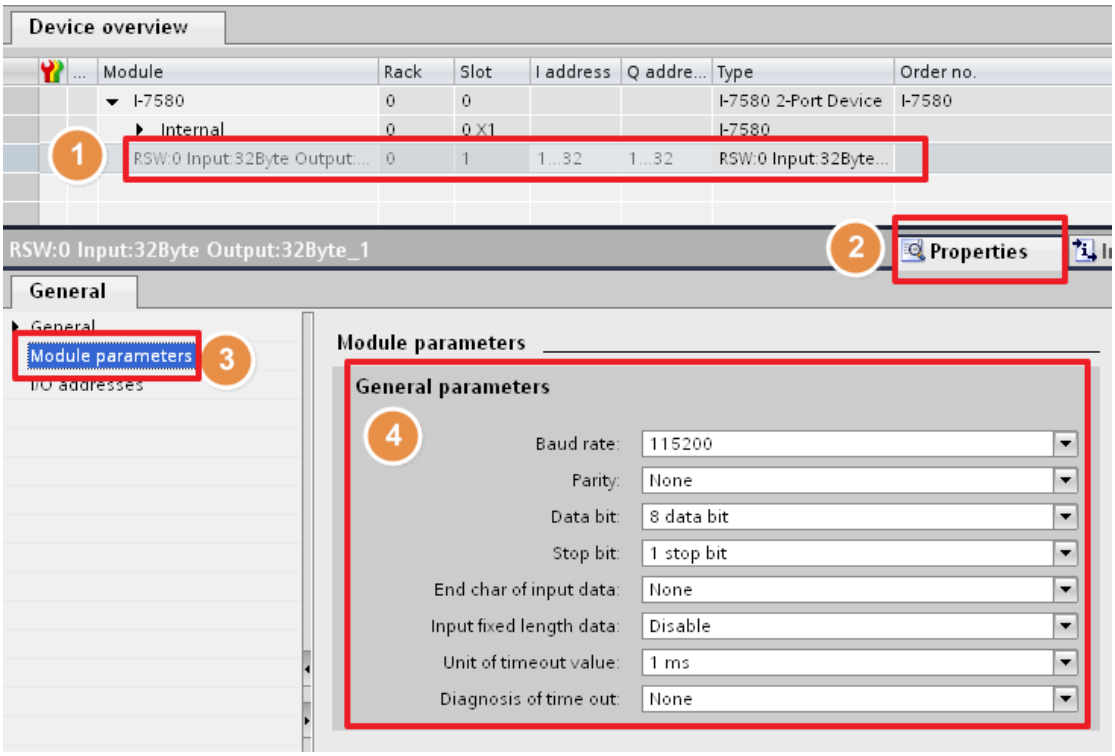


## 2. Please check the below before transmit and receive data.

A. AP LED is ON, BOOT LED is OFF, and ERR LED is OFF.
It means I-7580 is ready to transmit and receive data.




B. Confirm the I-7580's Comport settings is the same with RS-232 tool (ex: Send232, user can download Send232 from [Download Send232]).

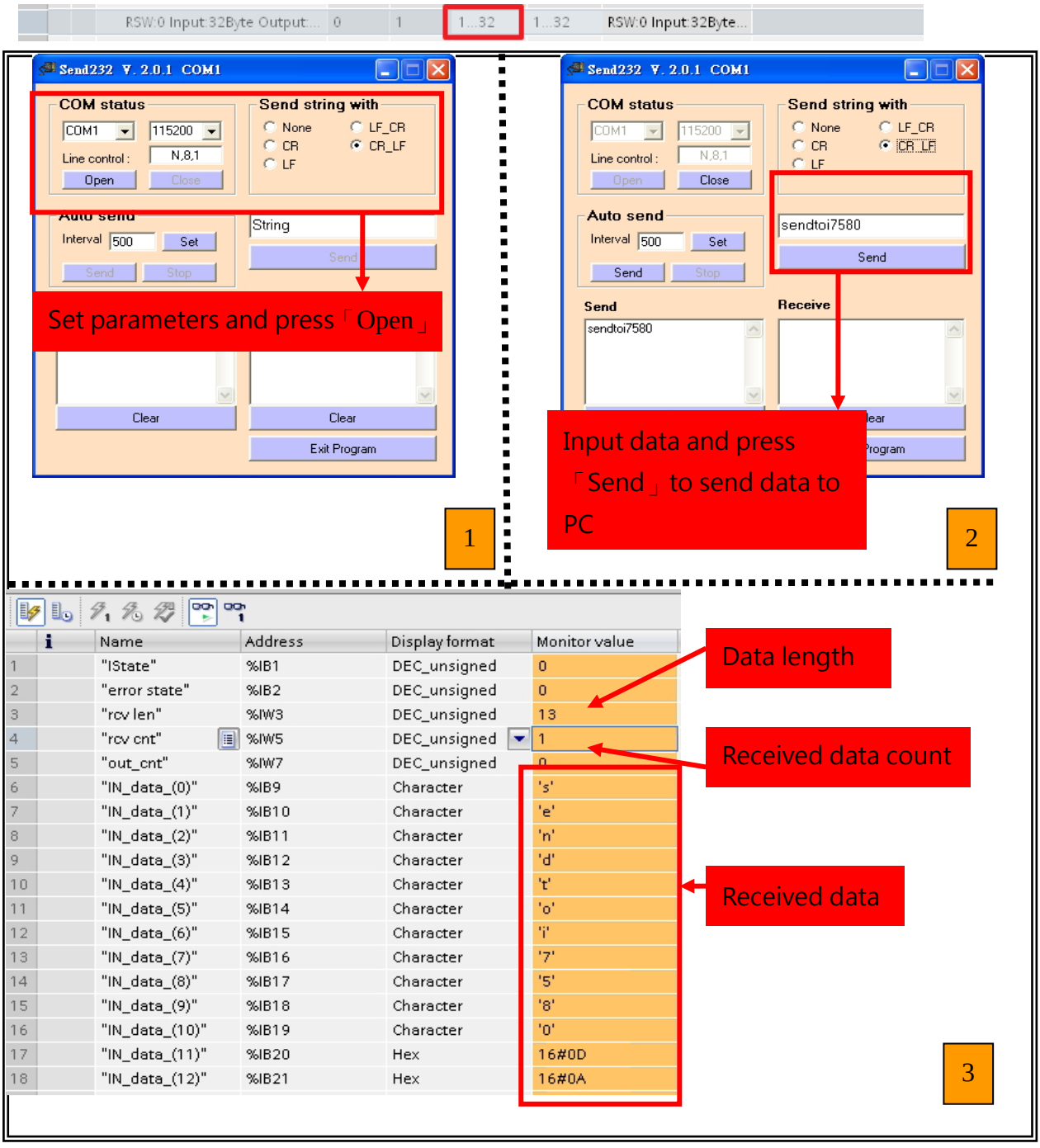



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# 3. Communication – Receive

We send the string “sendtoi7580” by Send232 and receive the same string in PROFINET input data area.

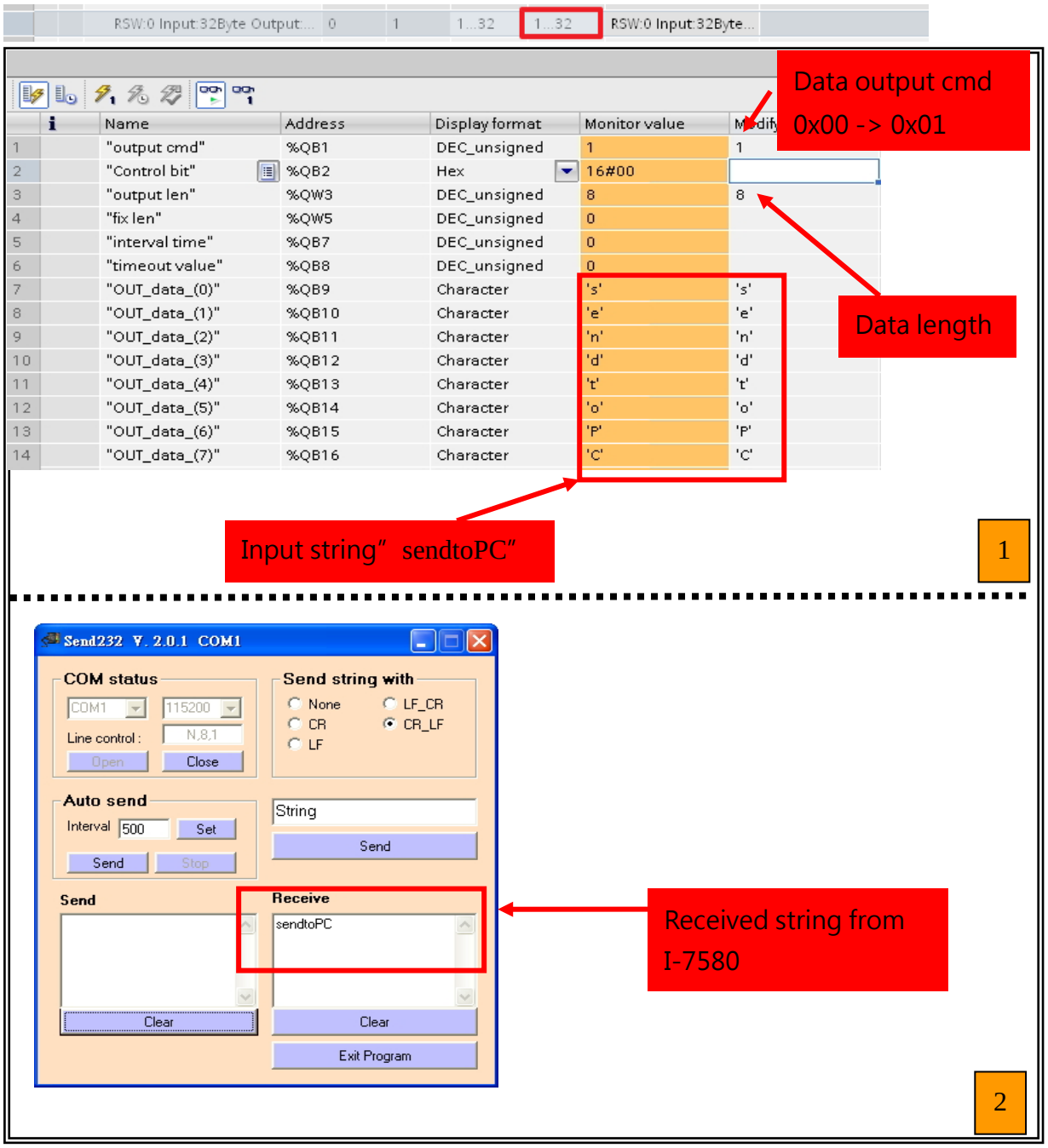
PROFINET input data address:1~32



# 4. Communication – Transmit

In PROFINET output data area, please set value of byte 4 to 8, and input data string “sendtoPC” to byte 9~13. As soon as byte 1 changes its value from 0 to 1, the data string will be transferred to RS232 device.

PROFINET Output data address: 1~32




| | | Name | Address | Display format | Monitor value | Modify |
|---|---|---|---|---|---|---|
| 1 | | "output cmd" | %QB1 | DEC_unsigned | 1 | 1 |
| 2 | | "Control bit" | %QB2 | Hex | 16#00 | |
| 3 | | "output len" | %QW3 | DEC_unsigned | 8 | 8 |
| 4 | | "fix len" | %QW5 | DEC_unsigned | 0 | |
| 5 | | "interval time" | %QB7 | DEC_unsigned | 0 | |
| 6 | | "timeout value" | %QB8 | DEC_unsigned | 0 | |
| 7 | | "OUT_data_(0)" | %QB9 | Character | 's' | 's' |
| 8 | | "OUT_data_(1)" | %QB10 | Character | 'e' | 'e' |
| 9 | | "OUT_data_(2)" | %QB11 | Character | 'n' | 'n' |
| 10 | | "OUT_data_(3)" | %QB12 | Character | 'd' | 'd' |
| 11 | | "OUT_data_(4)" | %QB13 | Character | 't' | 't' |
| 12 | | "OUT_data_(5)" | %QB14 | Character | 'o' | 'o' |
| 13 | | "OUT_data_(6)" | %QB15 | Character | 'P' | 'P' |
| 14 | | "OUT_data_(7)" | %QB16 | Character | 'C' | 'C' |