

Active Reader & Tag Set by Air Configuration Procedures

1. Reader Setting:

1.1 Connect the RS-232 Reader with the PC or NB via RS-232 connector

1.2 Execute COM port tool (Tera Term for example)

Default COM value: 9600 bps, 8-N-1, Non Flow control

The report data will be displayed on the window once per 3 seconds.

1.3 Key in "WF" which means write flash and the setting will be saved. The command will be restores to default value when power on next time.

The screenshot shows a Tera Term terminal window with the following content:

```
MASTER>?
usage: command [##] [0x##]
LT #.#.#.#: Link Token
PT #.#.#.#: Set Peer Token
RF : Save Configuration
WF : Write Configuration
RT : Reset
CN #: Channel Number (1:922 2:924 3:926 4:928)
CP #: Channel Power (1:-10 2:0 3:10)
RP #: Report Period (0-86400 Sec)
BRP #: Battery Report Period (0-86400 Sec)
COMBR #: COM Baud Rate (1-6:9600-230400)
COMCL #: COM Control (Bit 7,6,4,3)
```

Annotations in the image:

- A red box highlights two lines of report data: `$1,0.0.0.2,4,0.0.0.2,4,0,0,0,33,0#`.
- An orange callout box points to the red box with the text: "The report data will be displayed on the window once per 3 seconds (Default)".
- A green box highlights the command help text.
- A green callout box points to the `MASTER>?` prompt with the text: "1. Press Enter key and the 'MASTER>' will be displayed" and "2. Key in '?' and press Enter key, the command guide will be displayed."

(Command Details)

```
MASTER>?
usage: command [##] [0x##]
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PT #.#.#.#: Set Peer Token
```

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CN #: Channel Number (1:922 2:924 3:926 4:928)
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RP #: Report Period (0-86400 Sec)
BRP #: Battery Report Period (0-86400 Sec)
COMBR #: COM Baud Rate (1-6:9600-230400)
COMCL #: COM Control (Bit 7,6,4,3)
ADCCL #: ADC Control (0:off 1:> 2:< 3:any)
ADCTH #: ADC Threshold (0-1023)
SHOW : Show Setting
DIO #: Digital IO Setting (0:In 1:Out)
ID #: ID Setting (8 Bytes)
RB : Reboot
EX : Save and Reboot
JS #: Join Setting (0:Off 1:Join 2:Set)
RSN : Read Serial Number

2. Tag Setting: Set by Air

2.1 Key in "JS 2" command in "MASTER>" mode

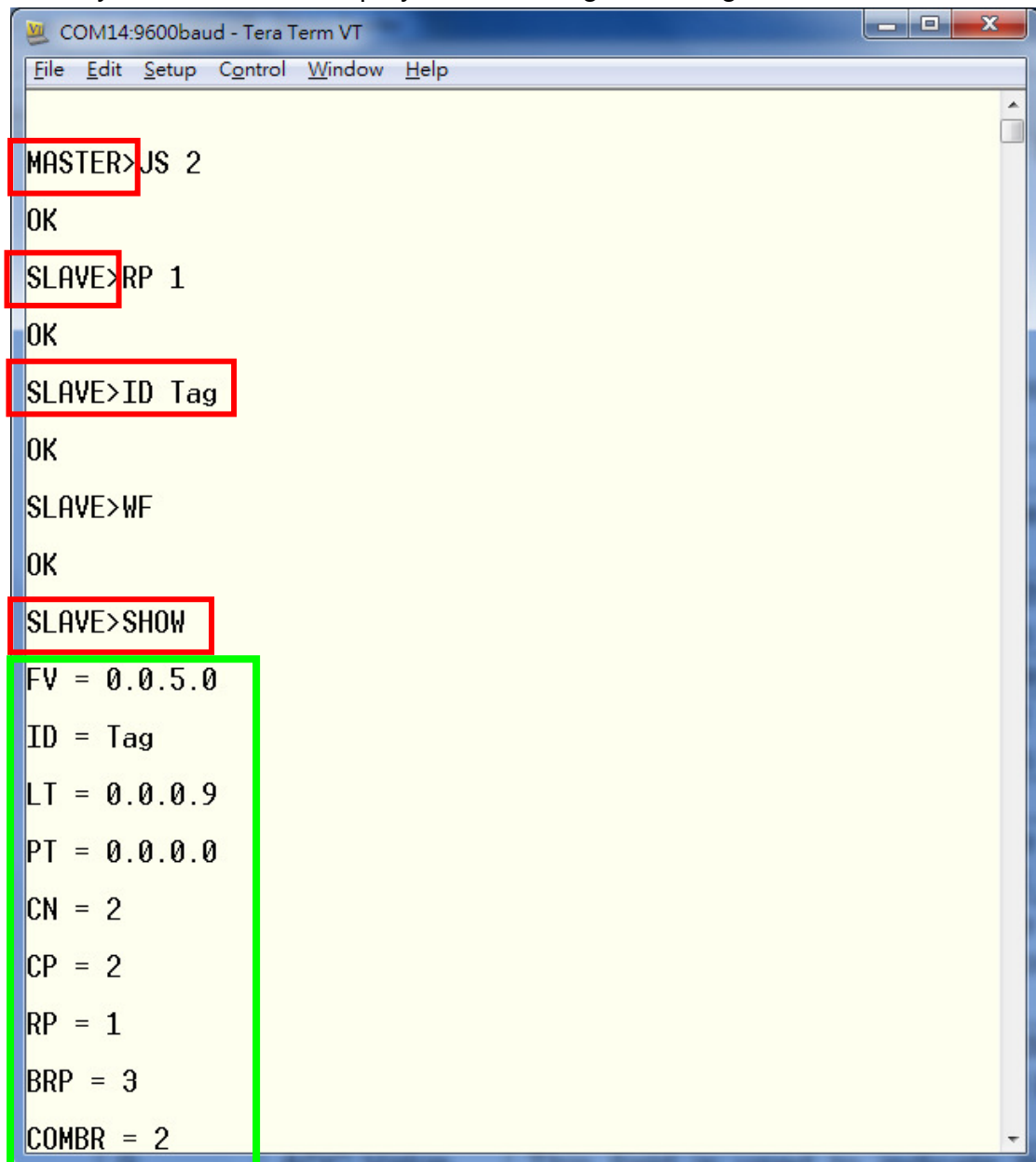
2.2 Press "Panic button" when the power of the tag is off and slide the switch to "On" side.

2.3 The "SLAVE" is shown in the window.

2.4 Set the tag by using the same command as the reader.

2.5 Key in "WF" which means write flash and the setting will be saved. The command will be restores to default value when power on next time.

2.6 Key in "SHOW" will display all the setting of the Tag.



Step 2.2

Step 2.6

(Display Details)

SLAVE>SHOW

FV = 0.0.5.0
ID = Tag
LT = 0.0.0.9
PT = 0.0.0.0
CN = 2
CP = 2
RP = 1
BRP = 3
COMBR = 2
COMCL = 0
ADCCL = 0
ADCTH = 0
DIO = 0

2.7 Key in “+++” will change from “SLAVE” to “MASTER” mode.

The screenshot shows a terminal window titled "COM14:9600baud - Tera Term VT". The terminal content is as follows:

```
SLAVE>+++  
MASTER>$0,0.0.0.9,Tag,0.0.0.2,4,0,0,0,0,27,-71#  
$0,0.0.0.9,Tag 0.0.0.2,4,0,0,0,0,27,-71#  
$0,0.0.0.9,Tag 0.0.0.2,4,0,0,0,0,0,-71#  
$0,0.0.0.9,Tag 0.0.0.2,4,0,0,0,0,27,-73#  
$0,0.0.0.9,Tag 0.0.0.2,4,0,0,0,0,0,-73#  
$0,0.0.0.9,Tag 0.0.0.2,4,0,0,0,0,1,0,28,-74#  
$0,0.0.0.9,Tag 0.0.0.2,4,0,0,0,0,0,-77#  
$0,0.0.0.9,Tag 0.0.0.2,4,0,0,0,0,28,-78#  
$0,0.0.0.9,Tag 0.0.0.2,4,0,0,0,0,0,-83#
```

Annotations in the image:

- A red box highlights the "SLAVE>+++".
- A red box highlights the "MASTER>" prefix of the first data line.
- A red box highlights the "Tag" field in the first data line.
- A red box highlights the value "1" in the fifth field of the fifth data line.
- A callout box points to the "1" with the text: "The data means that the panic button is pressed."
- A callout box points to the "Tag" field in the first data line with the text: "Customized Tag ID by the command 'ID'".