

RAK473 Use Guidance

Data Mode Using the Module

Shenzhen Rakwireless Technology Co., Ltd.

www.rakwireless.com

info@rakwireless.com

© RAK copyright. All rights reserved.

Companies and product names referred in the instruction belong to trademarks of their respective owners.

Any part of this document may not be reproduced, and may not be stored in any retrieval system, or delivered without RAK's written permission.

The document will be updated without prior notice.

1. Data Mode Using the Module

1.1 Overview

In this part, it is introduced how to access data mode to carry out socket data transmission, and exit data mode automatically. When transmitting and receiving data in data mode, data can be sent directly. There is no need to add destination address, data length and other information any more.

1.2 Access "Data mode" mode and transmit and receive data

1.First, in STA mode, add the module to the router and create a connection. Operation method is shown in "RAK473 (476) Guidance - Using TCP to communicate".

2. Send a command for accessing the data mode.

Send: at+data_mode\r\n

Return: 4F 4B 0D 0A

3. TCP Sever sends character string to TCP Client, that is, to send data from TCP/UDP test tool to the serial port (Figure 1-1).

Send: abcd

Return: 61 62 63 64

4. TCP Client sends character string to TCP Sever, that is, to send data "ABCD" from the serial port to TCP/UDP test tool (Figure 1-2).

Send: ABCD

Return: ABCD

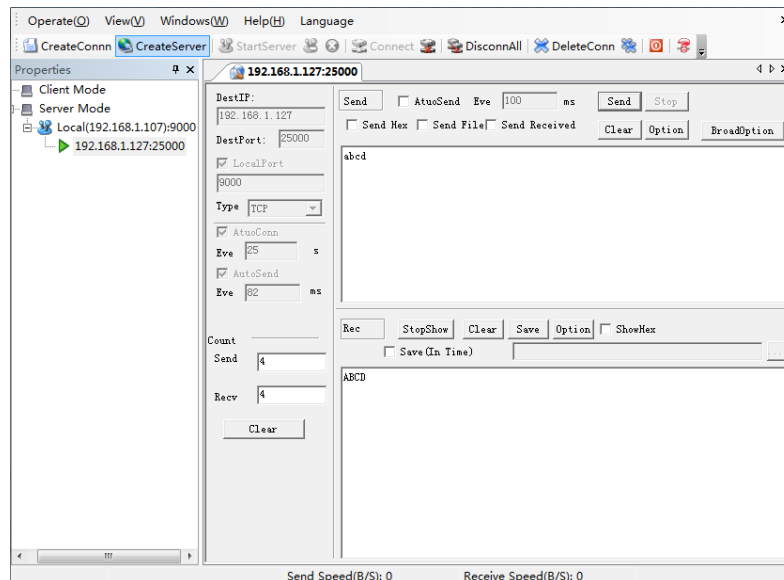


Figure 1-1 TCP/UDP test tool transmits and receives data

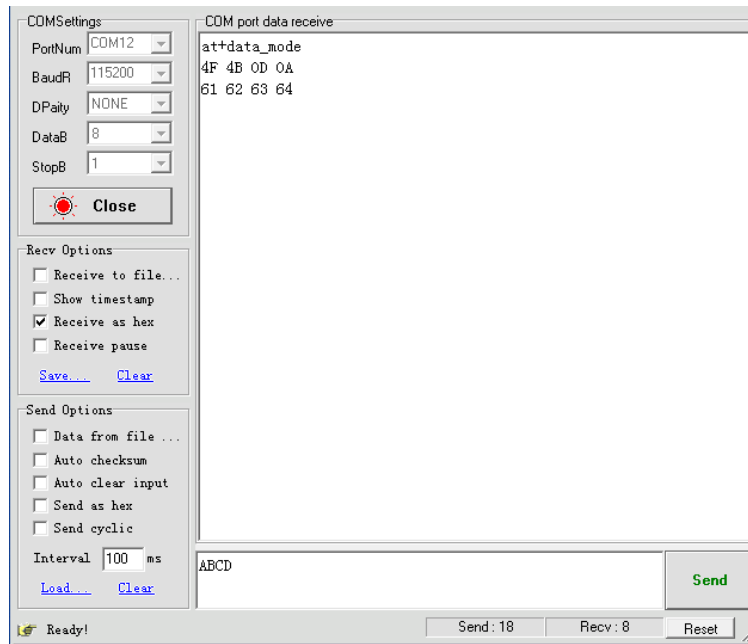


Figure 1-2 The module transmits and receives data

1.3 Exit "Data mode"

1. In the case of ASCII display.

Send: +++

Return: U (The hexadecimal system one returns 55)

2. Within 3 seconds of returning "U" in the previous step, it sends "U", to confirm exiting the data mode.

Send: U

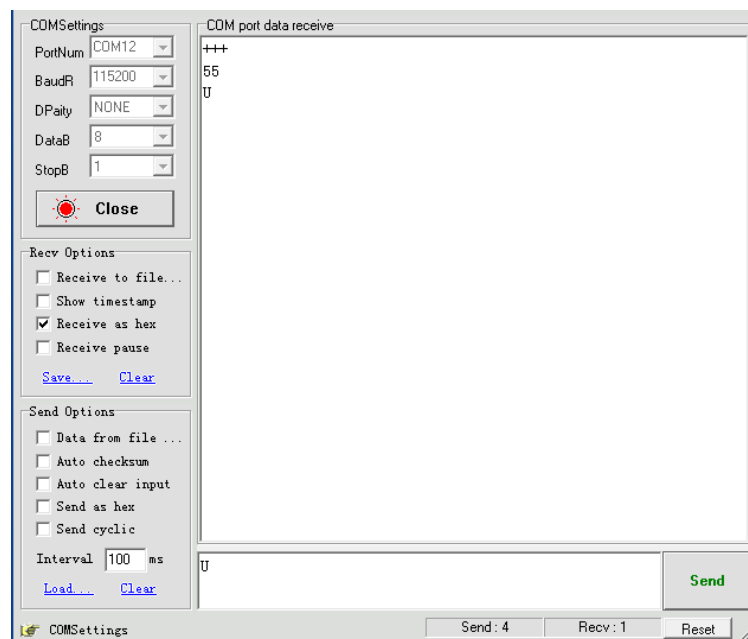


Figure 1-3 Exit "Data mode"

Version

Version	Author	Date	Content modification
V1.0	Lianbo Wang	2016/02/14	Create a document
V1.1	Xiaocheng Cao	2016/11/16	Modify some of the details