



Mobile TD/TTC/LTE

PC Tools for TD/TTC/LTE

Bridge Communication UserGuide

V1.0

Document Conventions

	Note: Provides related information or information of special importance.
 Caution	Caution: Indicates potential damage to hardware or software, or loss of data.
	Warning: Indicates a risk of personal injury.

Document Status

Doc Status: Bridge Communication User Guide

Technical Publication:

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1 前言

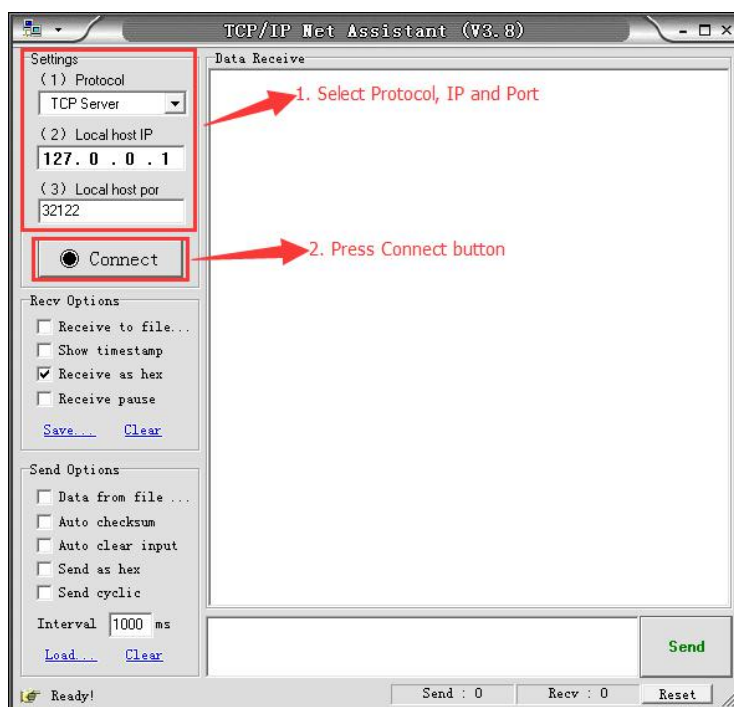
Catstudio Bridge Communication 是 Communication 模块中设备桥接的部分。目前为用户提供一组桥接方式，它负责把两个 Device 设备连接在一起，实现数据流的传输。

例如：Device3 通过 TCP 连接某 TCP 软件，Device1 通过串口连接 ASR 的 Modem interface，Device3 和 Device1 是桥接起来的。在 TCP 软件侧发送 AT 命令，Device3 会转发给 Device1；Device1 通过串口写入设备，Device1 把设备的返回信息转发给 Device3。

2 使用方法

2.1 TCP 工具的参数设置

1. 以 TCP/IP Net Assistant 工具为例；
2. 选择 TCP Server；
3. 输入 IP 和端口号；
4. 点击 Connect 按钮。

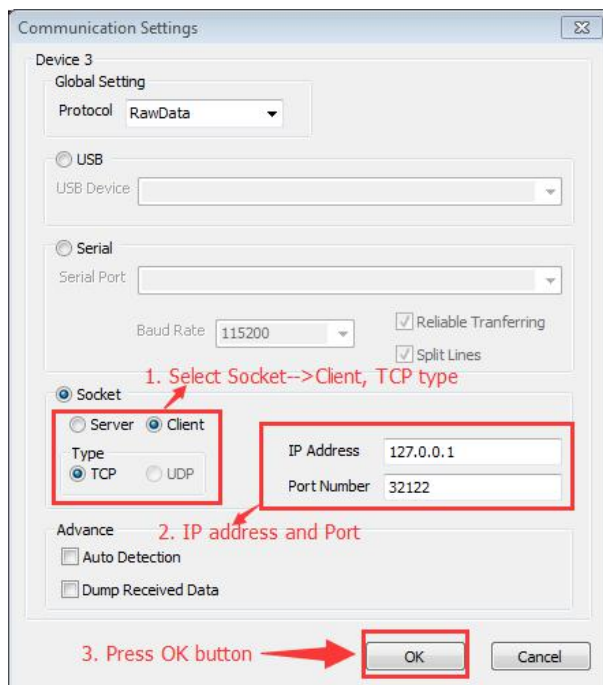


2.2 Communication Settings 的参数设置

2.2.1 Device 3 TCP-Client 部分的设置

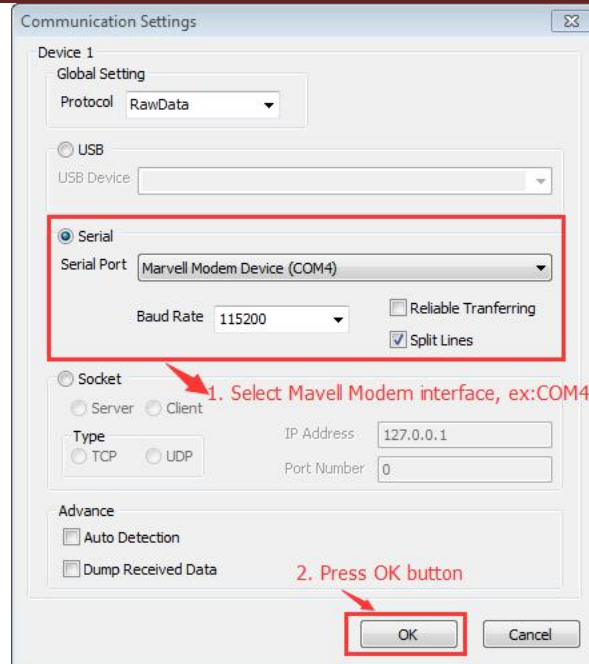
1. 在 Socket 中选择 TCP Client；
2. 输入 IP 地址和端口号；

3. 点击 OK 按钮。



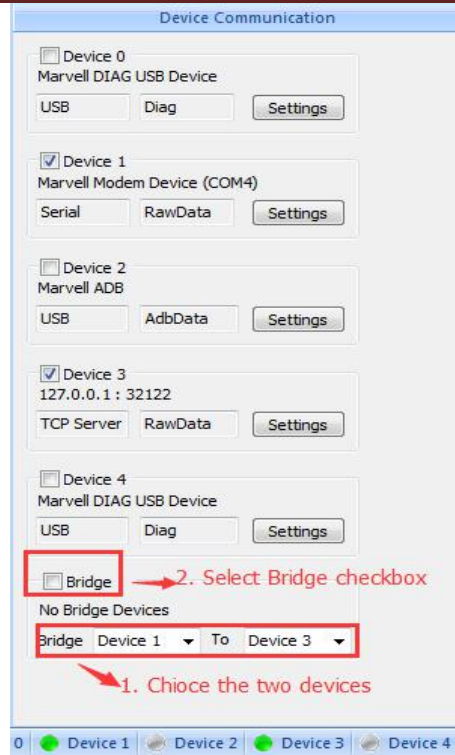
2.2.2 Device 1 串口部分的设置

1. 在 Serial 中选择 ASR Modem Interface;
2. 点击 OK 按钮。



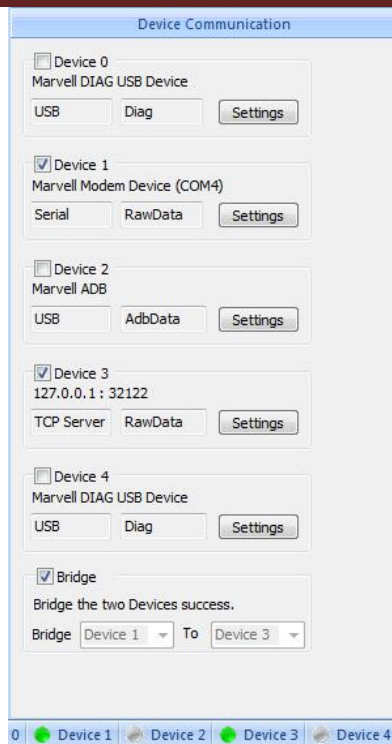
2.2.3 Bridge 的设置

1. 选择需要 Bridge 的 Device，例如 Device1 和 Device3；
2. 选中 Bridge 勾选框；
3. 如果用户重连 Bridge 的设备，Bridge Connection 会自动断开。



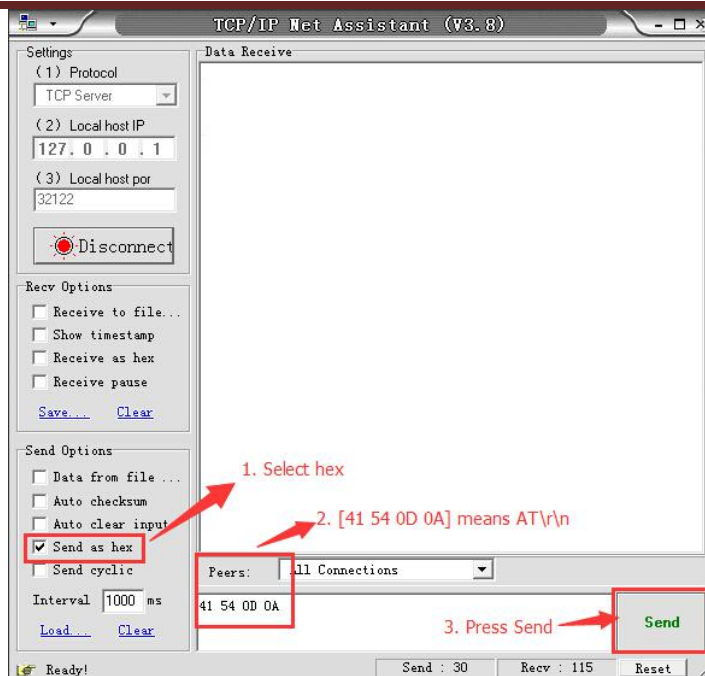
2.2.4 检查设置结果

1. Bridge 成功后，Device 的下拉菜单变成锁定状态。
2. Bridge 成功后，会提示 Bridge the two Devices success.
3. 如下图所示：



2.3 通过 TCP 工具发送数据

1. 选择 Send as Hex;
2. 输入 16 进制 41 54 0D 0A(AT 的 ASCII 值);
3. 点击 Send 按钮。



2.4 检查 LogViewer 中 log

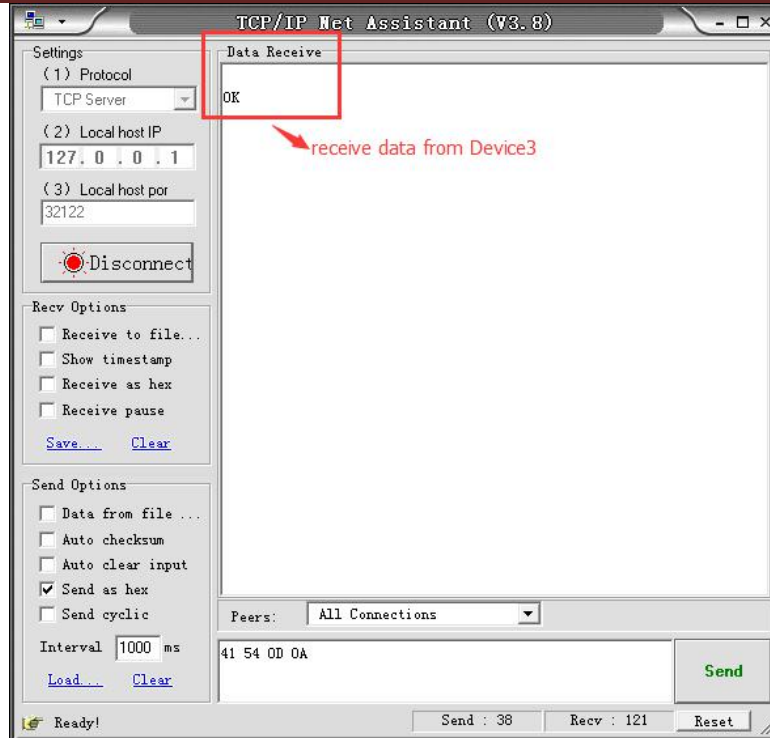
LogViewer								
Index	Cat1	Cat2	Cat3	Data	Data Hex	Length	PC Time Stamp	Comm Device
40				AT	41 54	2	17:33:01.574	Device 3
41				OK	4F 4B	2	17:33:01.578	Device 1

Index40: Device3 接收到的数据长度为 2，Hex 为 0x41 0x54;

Index41: Device1 接收到的数据长度为 2，Hex 为 0x4F 0x4B;

2.5 通过 TCP 工具检查 Device 1 的返回信息

在 TCP 工具的 Data Receive 栏，可以看到收到 OK 字符。



3 Appendix

3.1 Report issues

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Or contact ASR FAE/AE

Or please send email to lianghuxu@asrmicro.com with "PC Tools User Doc Issue/Update: ..." title

Or submit an issue at CQ web: <http://sh2-cq01.asrmicro.com/cqweb/login>.

3.2 Update this document

Please send updated document to lianghuxu@asrmicro.com with "PC Tools User Doc Issue/Update: ..." title for merging, and you will receive merged latest version.

3.3 *Revision History*

Rev	Description	Date
1.00	Initial version	2015-05-06