



Mobile TD/TTC/LTE

PC Tools for TD/TTC/LTE

Communication of Socket Part 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: Communication of Socket Part User Guide	Technical Publication:
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1 前言

Catstudio Socket Communication 是 Communication 模块中 Socket 设备的部分。它负责 CATStudio 通过 Socket 的方式跟外围通信，实现数据流的传输。

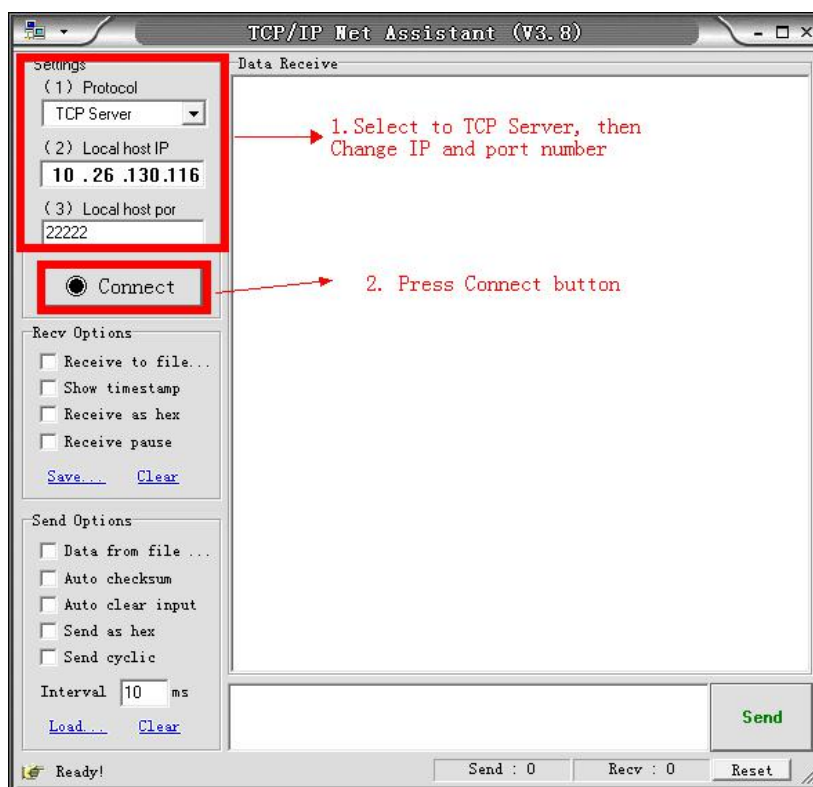
目前提供三种 Socket 连接方式：CATSutdio 作为 TCP 服务器端、CATStudio 作为 TCP 客户端、UDP 方式。

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CATStudio 作为 TCP 客户端的使用方法

2.1 在 TCP/IP 工具中，设定为 TCP Server

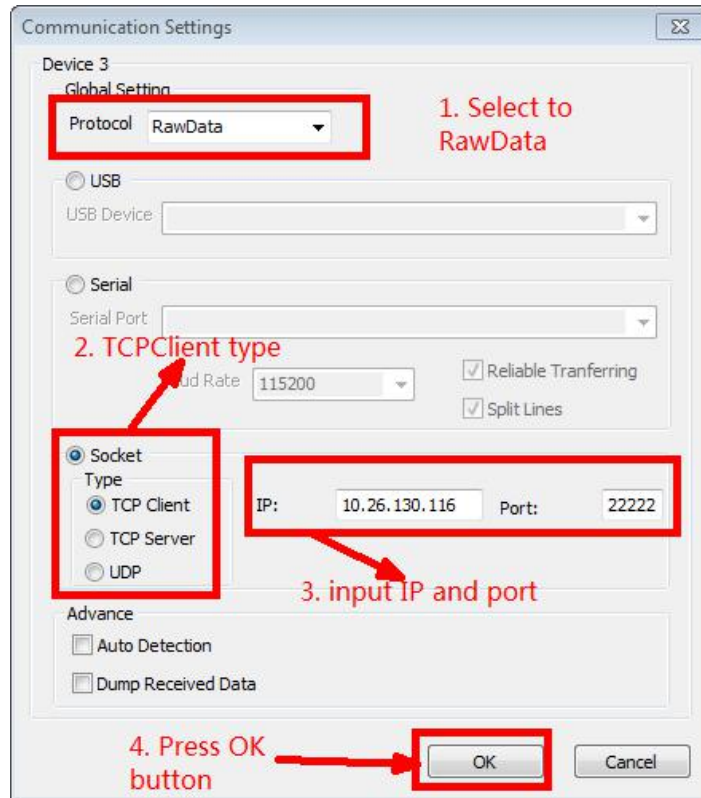
1. 以 TCP/IP Net Assistant 工具为例；
2. 选择 TCP Server；
3. 输入 IP 和端口号；
4. 点击 Connect 按钮。



2.2 在 CATStudio，设定为 TCPClient

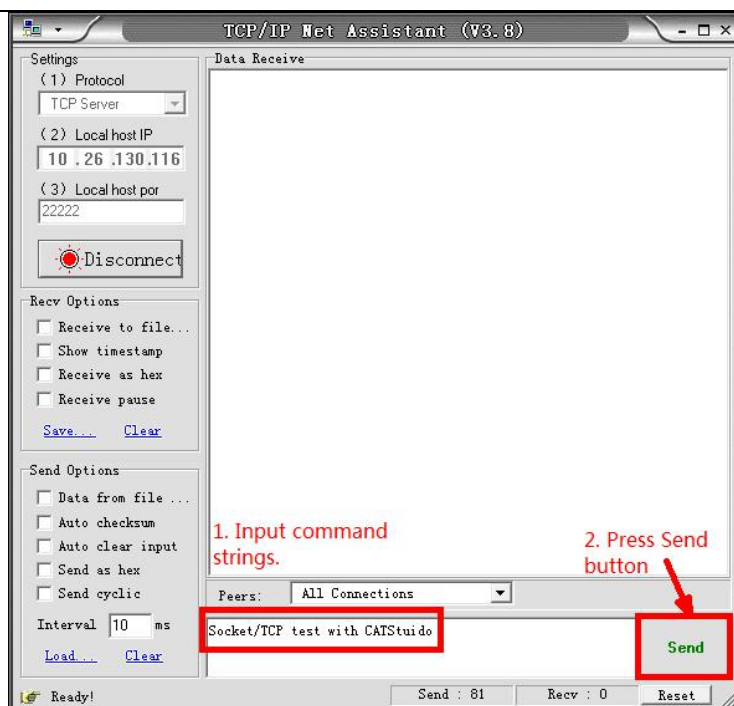
1. Protocol 选择为 RawData 模式；
2. Socket 下拉框选择 TCPClient；

3. 输入 TCPServer 的 IP 和端口号(端口号要和 TCPServer 的端口号一致);
4. 点击 OK 按钮。



2.3 TCP 工具发送数据，CATS 来接收数据

1. 在 TCP 工具，输入发送字符串；
2. 点击发送按钮；



3. CATStudio 的 LogViewer 中会显示出该字符串；

WorkspaceModulesUtilitiesLogLogViewerThemeWindowOptionsHelp

LogViewer

MiniViewer

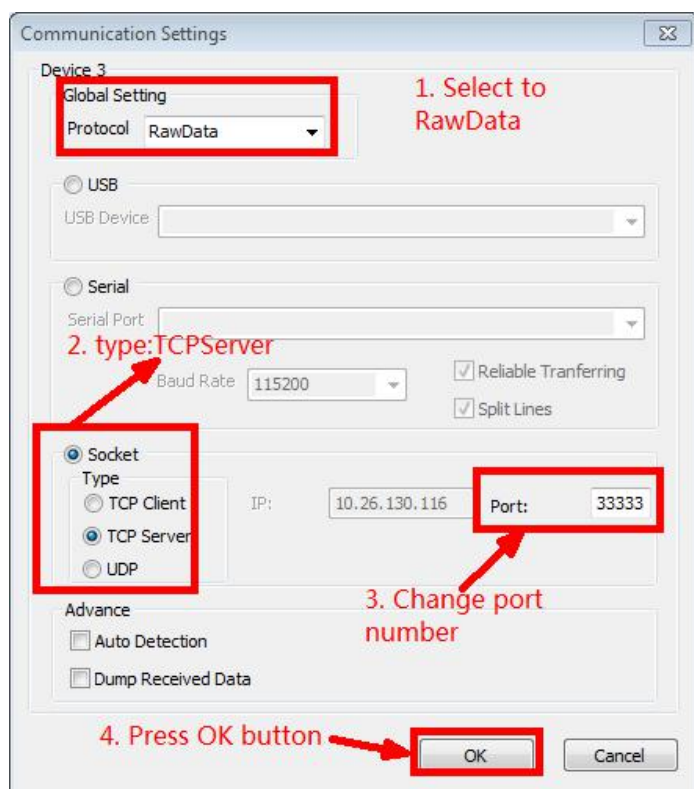
Index	Cat1	Cat2	Cat3	Data	Data Hex	Length	PC Time Stamp	Comm Device	Diag
2				Socket/TCP test with CATStuido	53 6F 63 € 30		16:47:51.778	Device 3	

3

CATStudio 作为 TCP 服务端的使用方法

3.1 在 **CAStudio** 中，设定为 **TCP Server**

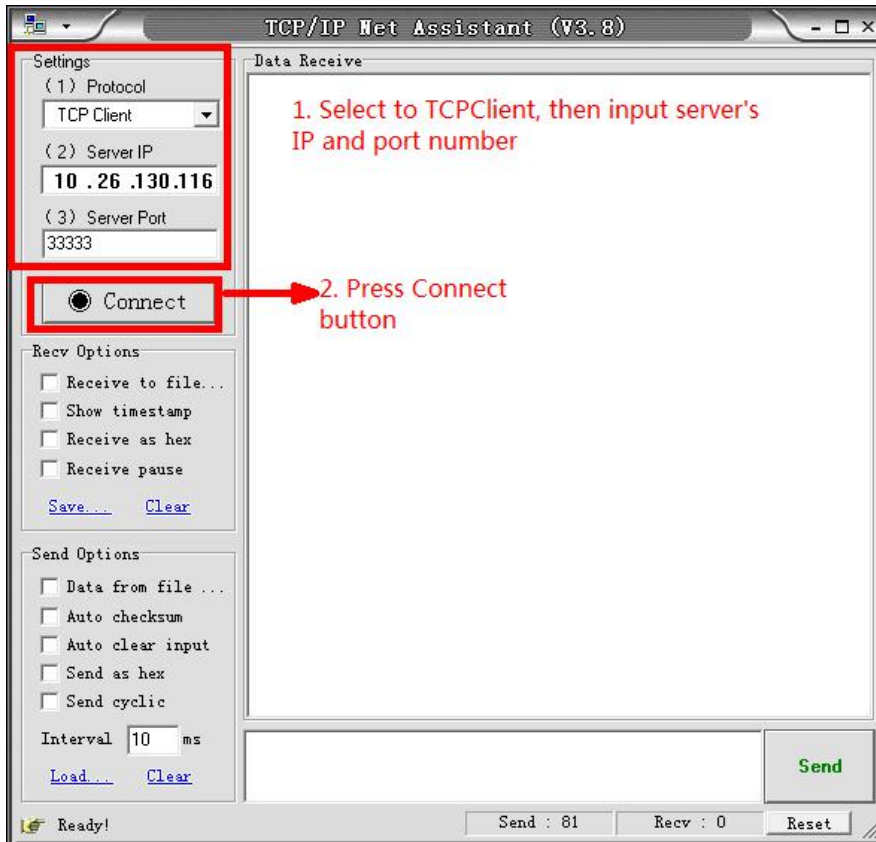
1. Protocol 选择为 RawData;
2. Type 选择 TCP Server;
3. 输入端口号;
4. 点击 OK 按钮。



3.2 在 **TCP/IP** 工具中，设定为 **TCPClient**

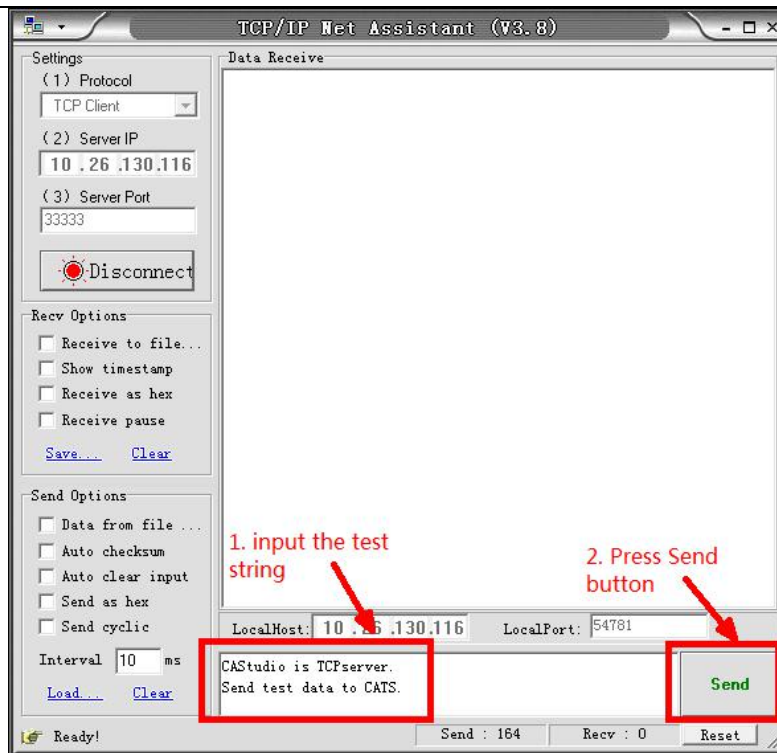
1. Protocol 下拉框选择 TCPClient;

2. 输入 TCPServer 的 IP 和端口号;
3. 点击 Connect 按钮。



3.3 TCP 工具发送数据，CATS 接收数据

1. 在 TCP 工具，输入发送字符串;
2. 点击发送按钮;



3. CATStudio 的 LogViewer 中会显示出该字符串;

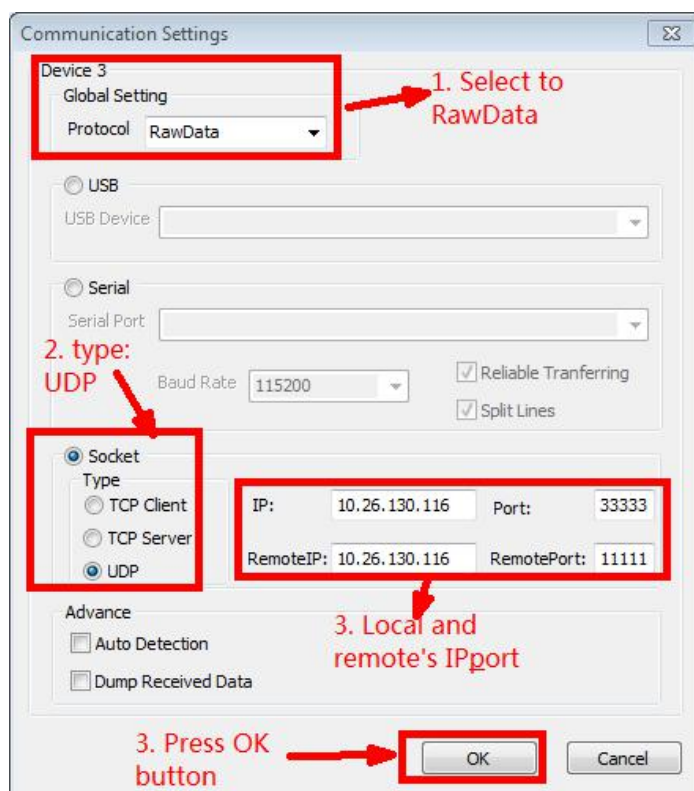
Marvell CATStudio 2.5.2.49 - LogViewer

Index	Cat1	Cat2	Cat3	Data	Data Hex	Length	PC Time Stamp	Comm Device
6				CAStudio is TCPserver.	43 41 53 74 75 64 65 22	22	17:12:31.463	Device 3
7				Send test data to CATS.	53 65 6E 64 20 74 65 23	23	17:12:31.463	Device 3

4 CATStudio UDP 的使用方法

4.1 在 **CAStudio** 中，设定为 **UDP** 模式

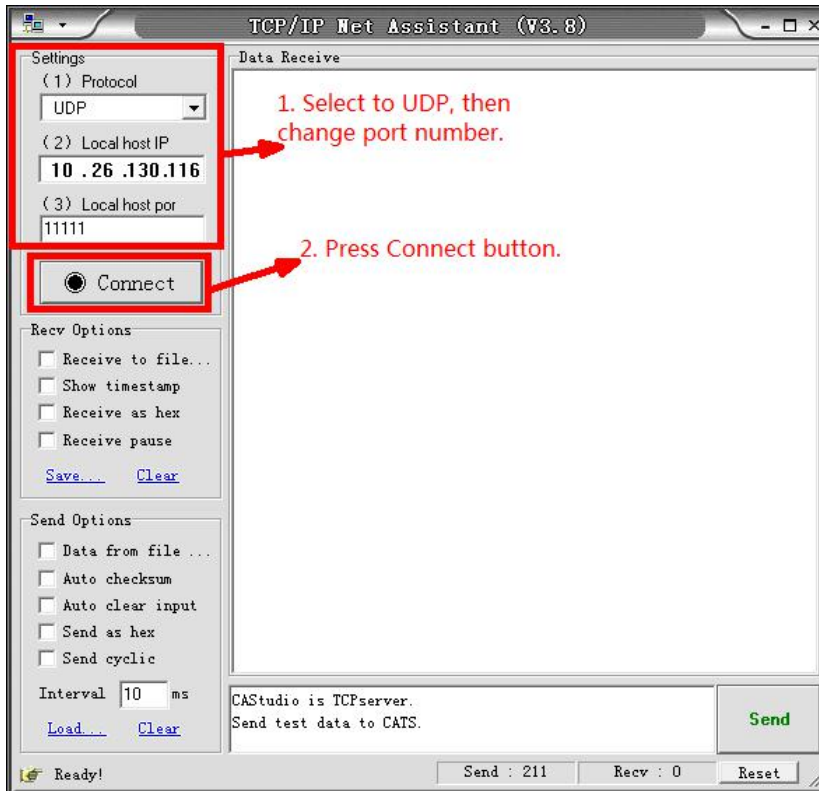
1. Protocol 选择为 RawData;
2. Type 选择 UDP;
3. 输入本机端口号、对方 IP 和端口号;
4. 点击 OK 按钮。



4.2 在 **TCP/IP** 工具中，设定为 **UDP**

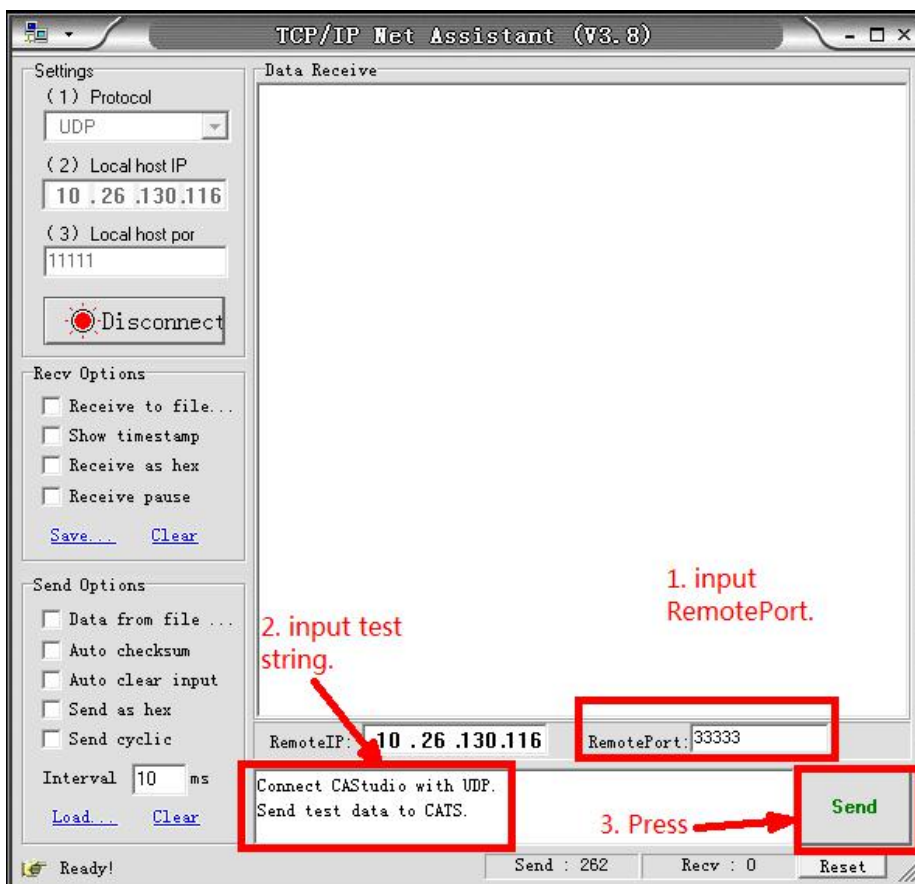
1. Protocol 下拉框选择 UDP;

2. 输入本地端口号(该端口号要和 CASTudio 中 remote 的端口号一致);
3. 点击 Connect 按钮。



4.3 TCP 工具发送数据，CATS 接收数据

1. 在 TCP 工具，输入 RemotePort;
2. 输入发送字符串;
3. 点击发送按钮;



4. CATStudio 的 LogViewer 中会显示出该字符串;

Marvell CATStudio 2.5.2.49 - LogViewer							
Workspace Modules Utilities Log LogViewer Theme Window Options Help							
LogViewer MiniViewer							
Index	Cat1	Cat2	Cat3	Data	Data Hex	Length	PC Time Stamp
8				Connect CASTudio with UDP.	43 6F 6E 6E 65 63 7 26	17:29:07.324	Device 3
9				Send test data to CATS.	53 65 6E 64 20 74 6 23	17:29:07.326	Device 3

5 Appendix

5.1 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>.

5.2 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.

5.3 Revision History

Rev	Description	Date
1.00	Initial version	2015-05-29