

Q. 如何从二个 Modbus RTU/ASCII Master 设备来存取单一个 Modbus RTU/ASCII Slave 设备?

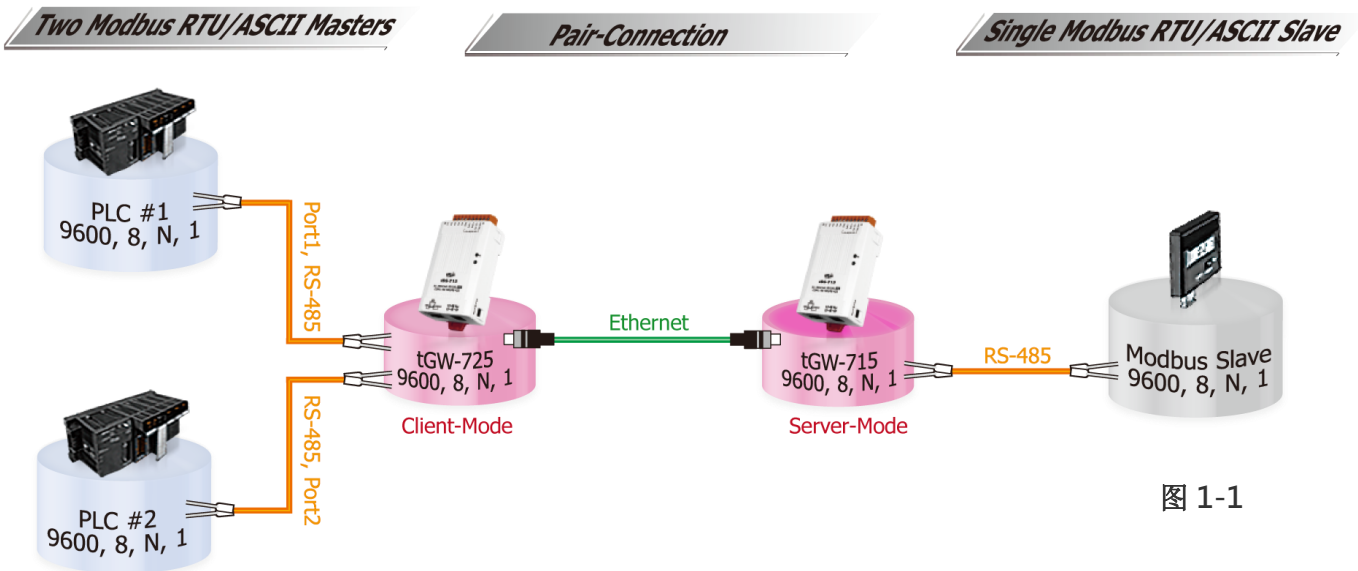


图 1-1

A: tGW-700 模块的 Pair-connection 配置设定如下表:

| Model   | COM Port | Port Settings |             | Pair-connection Settings |                                 |                        |
|---------|----------|---------------|-------------|--------------------------|---------------------------------|------------------------|
|         |          | Baud Rate     | Data Format | Server Mode              | Remote Server IP                | Remote TCP Port (预设设定) |
| tGW-725 | Port1    | 9600          | 8,N,1       | Client                   | 10.0.8.16                       | 502                    |
|         |          |               |             |                          | tGW-175 的 IP Address 及 TCP Port |                        |
|         | Port2    | 9600          | 8,N,1       | Client                   | 10.0.8.16                       | 502                    |
|         |          |               |             |                          | tGW-175 的 IP Address 及 TCP Port |                        |
| tGW-715 | Port1    | 9600          | 8,N,1       | Server                   | -                               | -                      |

**请参考至下列步骤来配置 tGW-725 模块:**

**步骤 1:** 请先确认您的 tGW-700 模块功能及网络联机是正常运作的，详细启动 tGW-700 模块及网络配置设定，请参考至 tGW-700 快速入门指南。



[下载快速入门指南](#)

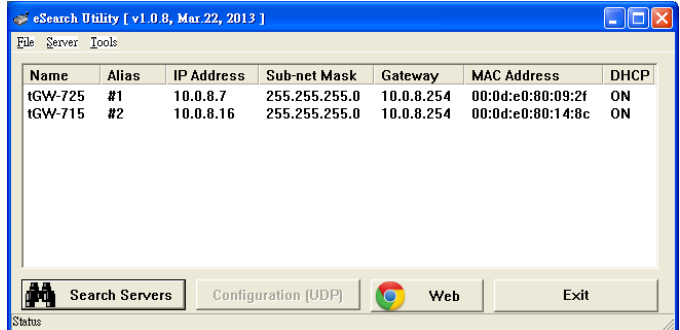


图 1-2

**步骤 2:** 执行 eSearch Utility，搜寻 tGW-725 模块，然后单击模块名称。

**步骤 3:** 单击 **“Web”** 按钮来进入 tGW-725 网页服务器 (使用原厂默认密码 **“admin”** 来登入)，或在浏览器的网址列中输入 tGW-725 的 IP 地址。

**步骤 4:** 单击 **“Port1”** 标签来进入 Port1 Settings 设定页面。

**步骤 5:** 选择适当的 **Baud Rate 值、Data Format 值及 Modbus Protocol**，设定范例如下: Baud Rate (bps) **“9600”**、Data Size (bits) **“8”**、Parity **“None”**、Stop Bits (bits) **“1”** 及 Modbus Protocol **“Modbus RTU”**。



**Tiny Modbus Gateway (tGW-72x)**

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Settings:

| Port Settings         | Current    | Updated                                   |
|-----------------------|------------|---|
| Baud Rate (bps)       | 115200     | 9600 bits/S                               |
| Data Size (bits)      | 8          | 8 bits/character                          |
| Parity                | None       | None                                      |
| Stop Bits (bits)      | 1          | 1   |
| Slave Timeout (ms)    | 300        | 300 (Default: 300)                        |
| Char Timeout (bytes)  | 4          | 4 (4 ~ 15, Default: 4)                    |
| Silent Time (ms)      | 0          | 0 (0, 10, 20... 65530, Default: 0)        |
| Read Cache (ms)       | 980        | 980 (10, 20... 65530, Disable: 0)         |
| Local TCP Port        | 502        | 502 (Default: 502)                        |
| TCP Timeout (seconds) | 180        | 180 (1 ~ 65535, Default: 180, Disable: 0) |
| Modbus Protocol       | Modbus RTU | Modbus RTU                                |

图 1-3

步骤 6: 在 Port1 的 Pair-connection settings 区块, 相关字段设定请参考至下表:

| 字段                       | Server Mode | Modbus Protocol                                 | Remote Server IP | Remote TCP Port | TCP Slave ID (1~247) | RTU Slave ID (1~247) |
|--------------------------|-------------|---|------------------|-----------------|----------------------|----------------------|
| Pair-Connection Settings | Client      | TCP   | 10.0.8.16        | 502             | 0                    | 0                    |
|                          |             | tGW-715 的 Modbus Protocol、IP address 及 TCP port |                  |                 |                      |                      |

步骤 7: 单击 **“Submit”** 按钮来完成设定。

| Pair-Connection Settings (Master/Slave Mode) | Current   | Updated                              |
|--|-----------|--------------------------------------|
| Server Mode                                  | Client    | Client (Server=Slave, Client=Master) |
| Modbus Protocol                              | TCP       | TCP                                  |
| Remote Server IP                             | 10.0.8.16 | 10 . 0 . 8 . 16                      |
| Remote TCP Port                              | 502       | 502                                  |
| RTU Slave ID (1~247)                         | 0         | 0 (0: Bypass, No check)              |
| TCP Slave ID (1~247)                         | 0         | 0 (0: Same as RTU)                   |

Submit

图 1-4

步骤 8: 单击 **“Port2”** 标签来进入 Port2 Settings 设定页面。

步骤 9: 选择适当的 **Baud Rate 值、Data Format 值及 Modbus Protocol**,

设定范例如下: Baud Rate (bps) **“9600”**、Data Size (bits) **“8”**、Parity **“None”**、Stop Bits (bits) **“1”** 及 Modbus Protocol **“Modbus RTU”**。



### Tiny Modbus Gateway (tGW-72x)

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#### Settings:

| Port Settings         | Current    | Updated                                   |
|-----------------------|------------|---|
| Baud Rate (bps)       | 9600       | 9600 bits/S                               |
| Data Size (bits)      | 8          | 8 bits/character                          |
| Parity                | None       | None                                      |
| Stop Bits (bits)      | 1          | 1   |
| Slave Timeout (ms)    | 300        | 300 (Default: 300)                        |
| Char Timeout (bytes)  | 4          | 4 (4 ~ 15, Default: 4)                    |
| Silent Time (ms)      | 0          | 0 (0, 10, 20... 65530, Default: 0)        |
| Read Cache (ms)       | 980        | 980 (10, 20... 65530, Disable: 0)         |
| Local TCP Port        | 503        | 503 (Default: 503)                        |
| TCP Timeout (seconds) | 180        | 180 (1 ~ 65535, Default: 180, Disable: 0) |
| Modbus Protocol       | Modbus RTU | Modbus RTU                                |

图 1-5

**步骤 10:** 在 Port2 的 Pair-connection settings 区块，相关字段设定请参考至下表：

| 字段                       | Server Mode | Modbus Protocol                                 | Remote Server IP | Remote TCP Port | TCP Slave ID (1~247) | RTU Slave ID (1~247) |
|--------------------------|-------------|---|------------------|-----------------|----------------------|----------------------|
| Pair-Connection Settings | Client      | TCP   | 10.0.8.16        | 502             | 0                    | 0                    |
|                          |             | tGW-715 的 Modbus Protocol、IP address 及 TCP port |                  |                 |                      |                      |

**步骤 11:** 单击 **“Submit”** 按钮来完成设定。

| Pair-Connection Settings (Master/Slave Mode) | Current   | Updated                              |
|--|-----------|--------------------------------------|
| Server Mode                                  | Client    | Client (Server=Slave, Client=Master) |
| Modbus Protocol                              | TCP       | TCP                                  |
| Remote Server IP                             | 10.0.8.16 | 10 . 0 . 8 . 16                      |
| Remote TCP Port                              | 502       | 502                                  |
| RTU Slave ID (1~247)                         | 0         | 0 (0: Bypass, No check)              |
| TCP Slave ID (1~247)                         | 0         | 0 (0: Same as RTU)                   |
| Submit                                       |           |                                      |

图 1-6

**步骤 12:** 单击 **“Home”** 标签来确认 Port1 及 Port2 的 Pair-connection 设定是否正确。

**Current port settings:**

| Port Settings                                | Port 1    | Port 2    |
|--|-----------|-----------|
| Baud Rate (bps)                              | 9600      | 9600      |
| Data Size (bits)                             | 8         | 8         |
| Parity                                       | None      | None      |
| Stop Bits (bits)                             | 1         | 1         |
| Modbus Protocol                              | RTU       | RTU       |
| Slave Timeout (ms)                           | 300       | 300       |
| Char Timeout (bytes)                         | 4         | 4         |
| Silent Time (ms)                             | 0         | 0         |
| Read Cache (ms)                              | 980       | 980       |
| Local TCP Port                               | 502       | 503       |
| TCP Timeout (Seconds)                        | 180       | 180       |
| Pair-Connection Settings (Master/Slave Mode) | Port 1    | Port 2    |
| Server Mode                                  | Client    | Client    |
| Remote Server IP                             | 10.0.8.16 | 10.0.8.16 |
| Remote TCP Port                              | 502       | 502       |
| RTU Slave ID                                 | 0         | 0         |
| TCP Slave ID                                 | 0         | 0         |

图 1-7

**请参考至下列步骤来配置 tGW-715 模块:**

**步骤 13:** 执行 eSearch Utility，搜寻 tGW-715 模块，然后单击模块名称，然后单击 **“Web”** 按钮来进入 tGW-715 网页服务器 (使用原厂默认密码 **“admin”** 来登入)，或在浏览器的网址列中输入 tGW-715 的 IP 地址。

**步骤 14:** 单击 **“Port1”** 标签来进入 Port1 Settings 设定页面。

**步骤 15:** 选择适当的 **Baud Rate 值、Data Format 值及 Modbus Protocol**,

设定范例如下: Baud Rate (bps) **“9600”**、Data Size (bits) **“8”**、Parity **“None”**、Stop Bits (bits) **“1”** 及 Modbus Protocol **“Modbus RTU”**。

**步骤 16:** 在 Port1 的 Pair-connection settings 区块，从 **“Server Mode”** 下拉式选单中选择 **“Server”** 项目。

**步骤 17:** 单击 **“Submit”** 按钮来完成设定。

※以上步骤可参考至 **图 1-8**。



**Tiny Modbus Gateway (tGW-71x)**

Home **Port1** Network | Filter | Monitor | Password | Logout

**Settings:**

| Port Settings                                | Current    | Updated                                   |
|--|------------|---|
| Baud Rate (bps)                              | 9600       | 9600 ▼ bits/S                             |
| Data Size (bits)                             | 8          | 8 ▼ bits/character                        |
| Parity                                       | None       | None ▼                                    |
| Stop Bits (bits)                             | 1          | 1 ▼                                       |
| Slave Timeout (ms)                           | 300        | 300 (Default: 300)                        |
| Char Timeout (bytes)                         | 4          | 4 (4 ~ 15, Default: 4)                    |
| Silent Time (ms)                             | 0          | 0 (0, 10, 20... 65530, Default: 0)        |
| Read Cache (ms)                              | 980        | 980 (10, 20... 65530, Disable: 0)         |
| Local TCP Port                               | 502        | 502 (Default: 502)                        |
| TCP Timeout (seconds)                        | 180        | 180 (1 ~ 65535, Default: 180, Disable: 0) |
| Modbus Protocol                              | Modbus RTU | Modbus RTU ▼                              |
| Pair-Connection Settings (Master/Slave Mode) | Current    | Updated                                   |
| Server Mode                                  | Server     | Server ▼ (Server=Slave, Client=Master)    |
| Modbus Protocol                              | TCP        | TCP ▼                                     |
| Remote Server IP                             | Disabled   | 10 . 0 . 8 . 7                            |
| Remote TCP Port                              | Disabled   | 503                                       |
| RTU Slave ID (1~247)                         | 1          | 1 (0: Bypass, No check)                   |
| TCP Slave ID (1~247)                         | 0          | 0 (0: Same as RTU)                        |
|  |            | <b>Submit</b>                             |

图 1-8

步骤 18: 单击 “Home” 标签来确认 Port1 的 Pair-connection 设定是否正确。

**Current port settings:**

| Port Settings                                |  | Port 1 |
|--|--|--------|
| Baud Rate (bps)                              |  | 9600   |
| Data Size (bits)                             |  | 8      |
| Parity                                       |  | None   |
| Stop Bits (bits)                             |  | 1      |
| Modbus Protocol                              |  | RTU    |
| Slave Timeout (ms)                           |  | 300    |
| Char Timeout (bytes)                         |  | 4      |
| Silent Time (ms)                             |  | 0      |
| Read Cache (ms)                              |  | 980    |
| Local TCP Port                               |  | 502    |
| TCP Timeout (Seconds)                        |  | 180    |
| Pair-Connection Settings (Master/Slave Mode) |  | Port 1 |
| Server Mode                                  |  | Server |
| Remote Server IP                             |  | -      |
| Remote TCP Port                              |  | -      |
| RTU Slave ID                                 |  | -      |
| TCP Slave ID                                 |  | -      |



图 1-9