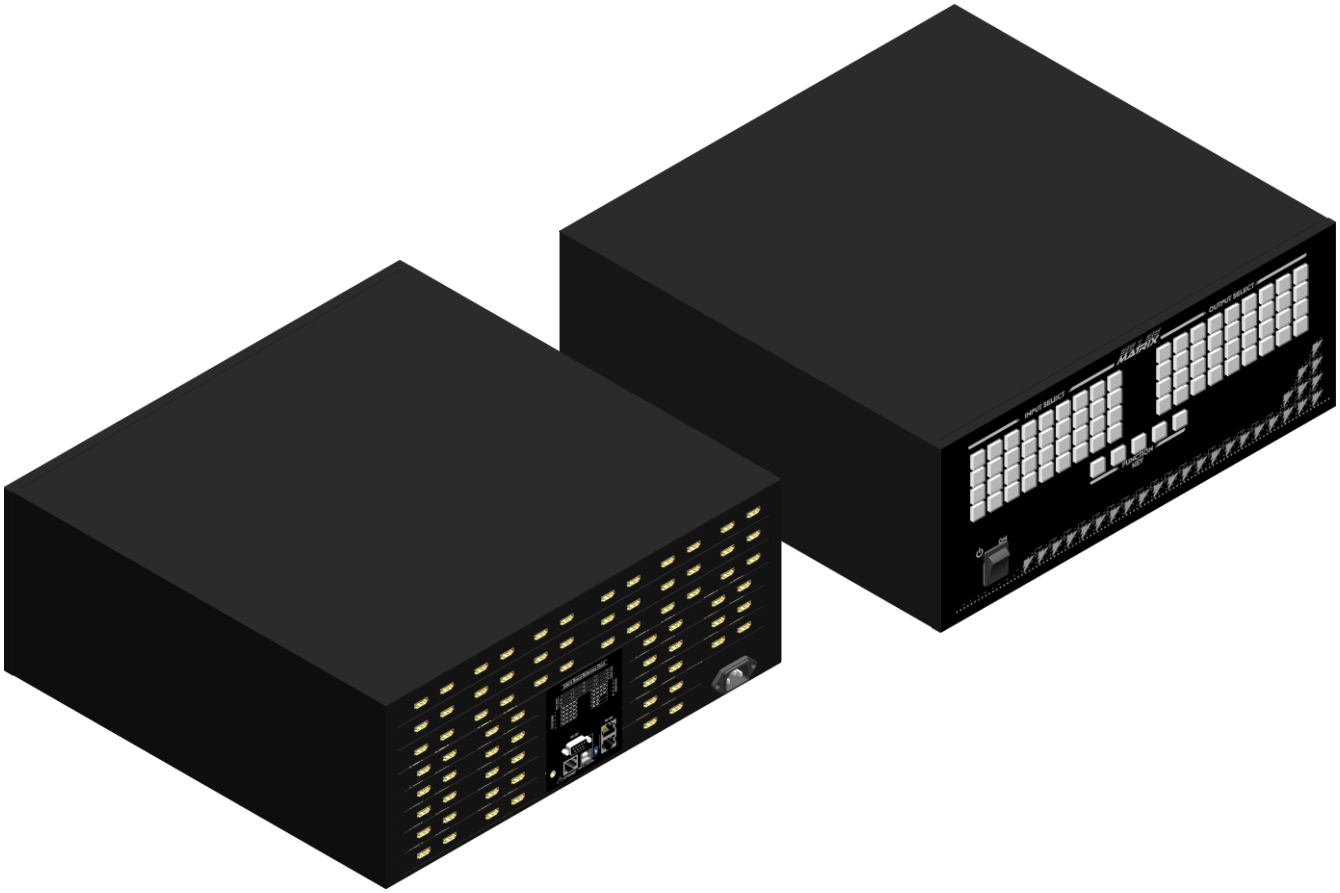
# 36x36 HDMI Matrix Switcher with Full 3D Support



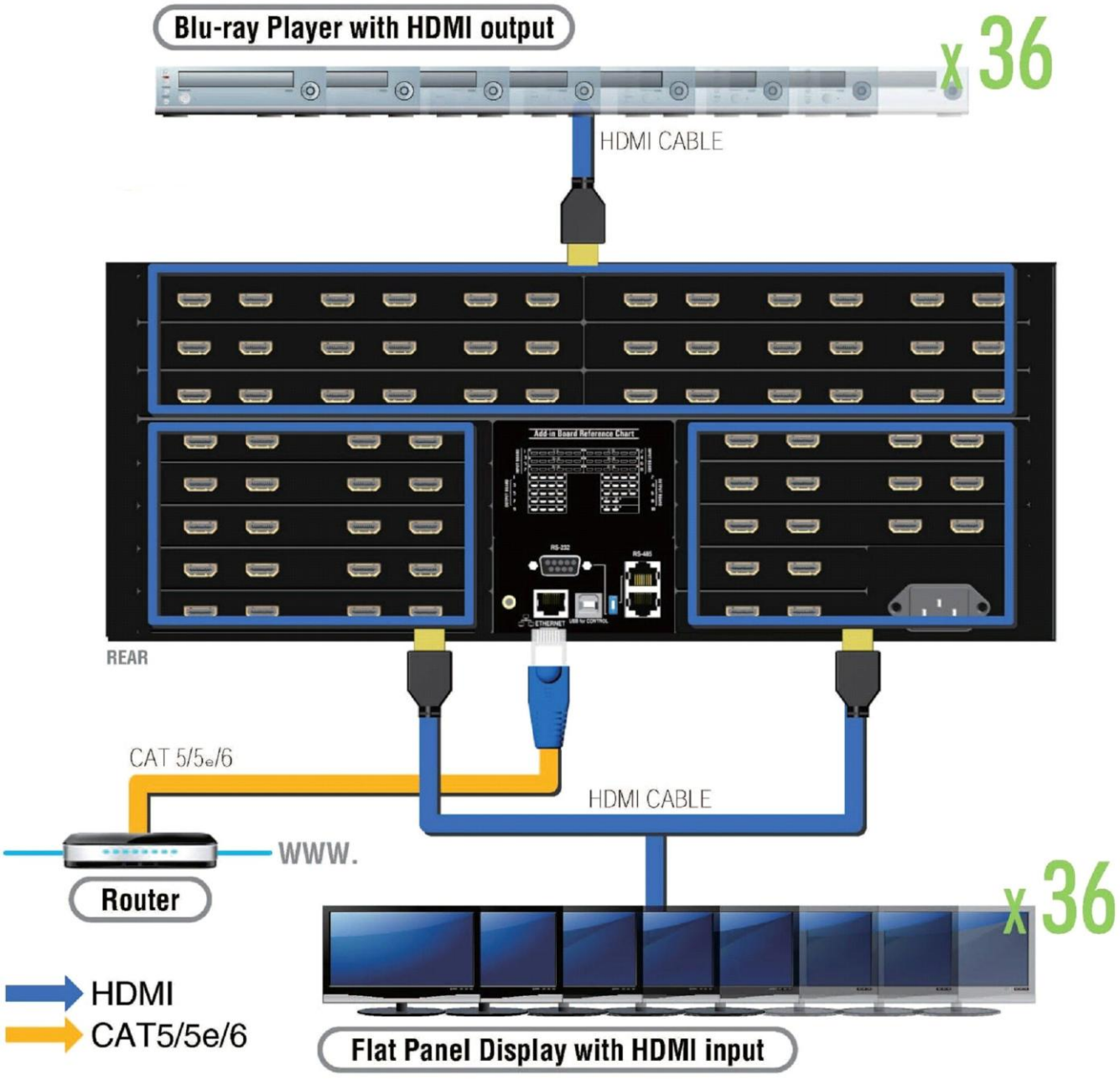
P/N: AV-GM07N3-S1

# Safety and Notice

The **AV-GM07N3-S1 36x36 HDMI Matrix Switcher with Full 3D Support** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the AV-GM07N3-S1 should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

The **36x36 HDMI Matrix Switcher with Full 3D Support** HDMI Matrix provides the most flexible and cost effective solution in the market to route high definition video sources plus multi-channel (up to 7.1 channel) digital audio from any of the four HDMI sources to the any four displays at the same time. This solution is well suited for use in home theater, conference room presentation systems, or other similar setting or application.



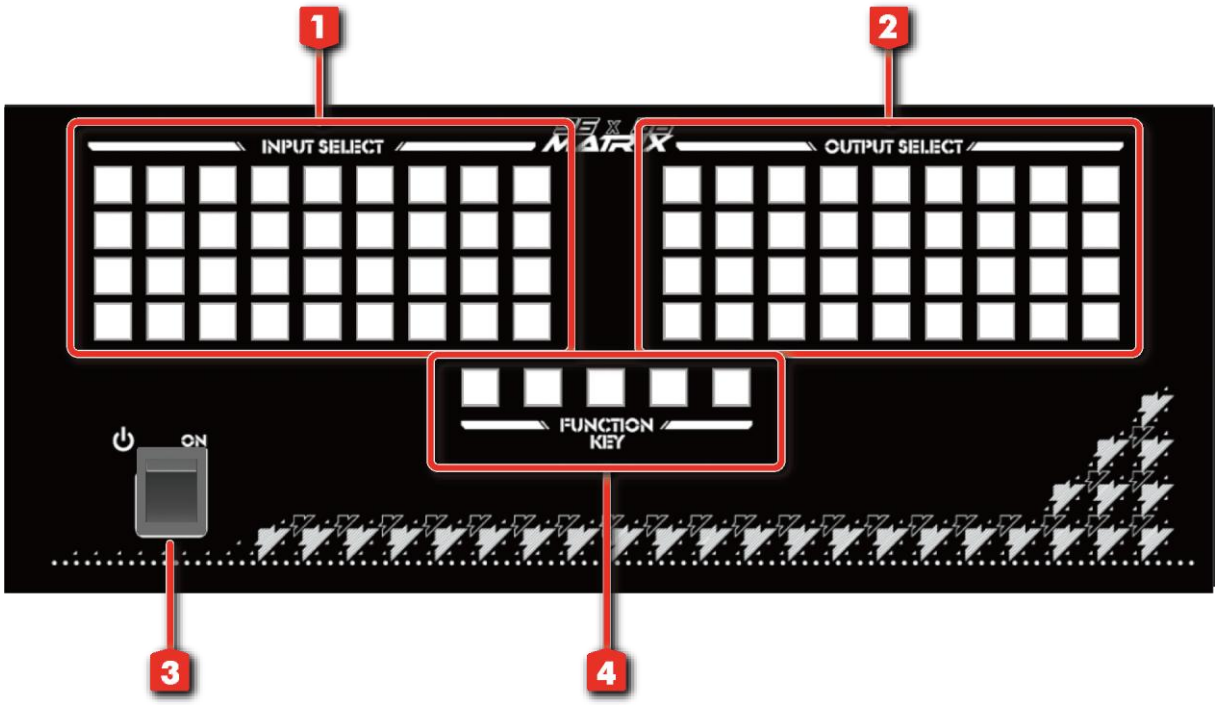
# Features

- Support HDMI Deep Color & full 3D
- HDCP compliant.
- Allows any source to be displayed on multiple displays at the same time.
- Allows any HDMI display to view any HDMI source at any time.
- Supports 7.1 channel digital audio.
- Supports default HDMI EDID and learns the EDID of displays.
- The matrix master can switch every output channels to any HDMI inputs by push-in button,Ethernet or RS-232 control.
- Easy installation with rack-mounting and wall-mounting designs for master and receiver respectively.
- Fast channel switch response time.

# Specifications & Package Contents

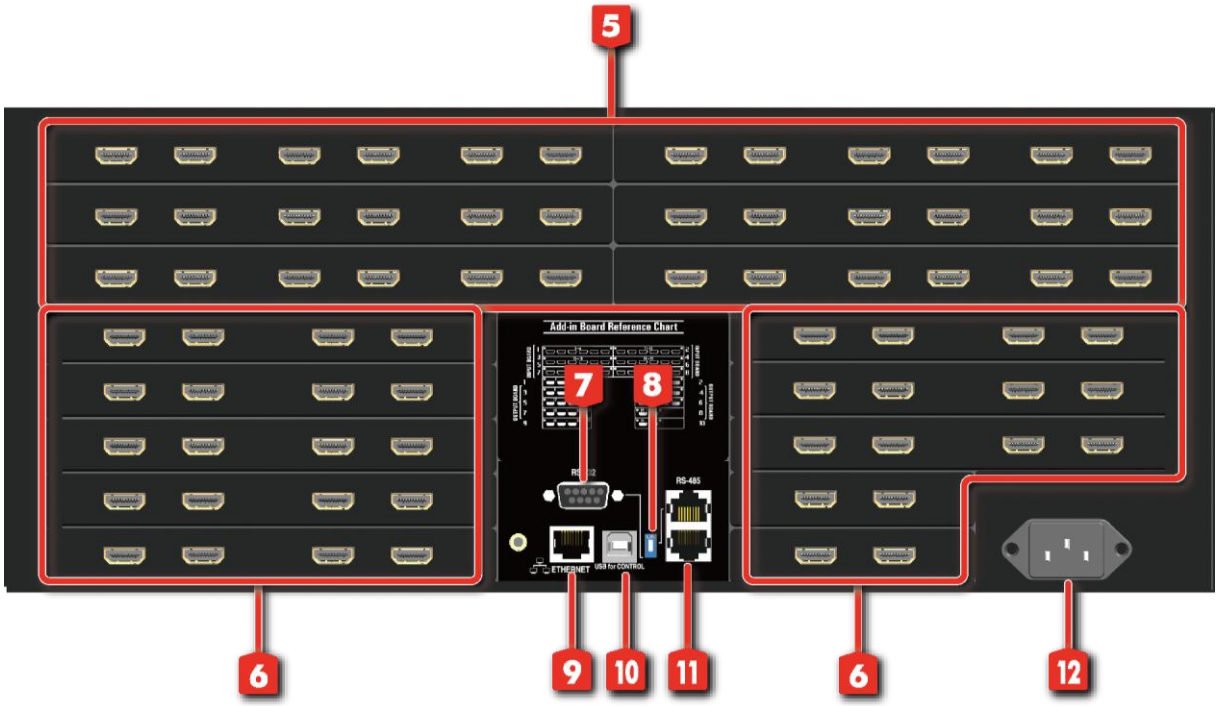
| Model Name | | AV-GM07N3-S1 |
|---|---|---|
| **Technical** | | |
| Role of usage | | True 36x36 matrix |
| HDMI compliance | | HDMI Deep Color & full 3D |
| HDCP compliance | | Yes |
| Video bandwidth | | Single-link 225MHz [6.75Gbps] |
| Video support | | 480i / 480p / 720p / 1080i / 1080p60 12-bit color |
| Audio support | | Surround sound (up to 7.1ch) or stereo digital audio |
| ESD protection | | [1] Human body model — ±19kV [air-gap discharge] & ±12kV [contact discharge]<br>[2] Core chipset — ±8kV |
| PCB stack-up | | multi-layer board [impedance control — differential 100Ω; single 50Ω] |
| Input | | 36x HDMI + 1x RS-232 + 2x RS485 + 1x LAN + 1x USB + 1x IR |
| Output | | 36x HDMI |
| HDMI Input selection | | Push button / RS-232 / LAN |
| HDMI connector | | Type A [19-pin female] |
| RS-232 connector | | DE-9 [9-pin D-sub female] |
| DIP switch | | Use for RS232 interface |
| **Mechanical** | | |
| Housing | | Metal enclosure |
| Dimensions (L x W x H) | Model | 440 x 424 x 175mm [1’5” x 1’5” x 7”] |
| | Package | 572 x 607 x 330mm [1’11” x 2’ x 1’1”] |
| Weight | Model | 15kg [33 lbs] |
| | Package | 16kg [35 lbs] |
| Fixedness | | 1U rack - mount with ears and wall hanging holes |
| Power supply | | AC Power 100-240V |
| Power consumption | | 116 Watts [max] |
| Operation temperature | | 0~40°C [32~104°F] |
| Storage temperature | | -20~60°C [-4~140°F] |
| Relative humidity | | 20~90% RH [no condensation] |
| **Package Contents** | | 1x AV-GM07N3-S1<br>2x Rack-mounting ears<br>1x User Manual<br>1x UL AC power cord |

# Front Panel




1. **Input selection group:** Input channel selection.
2. **Output selection group:** Output channel selection.
3. **Power:** Power on/off switcher.
4. **Function Keys:** Input/Output mode select & Save/Load channel status & EDID setting buttons.

# Rear Panel




5. **HDMI Input:** HDMI input port.
6. **HDMI Output:** HDMI output port.
7. **RS-232:** Serial control.
8. **Dip switch:** RS-232/485 control switch.
9. **RJ-45:** LAN(Ethernet) control.
10. **USB:** USB Type-B (RS232 interface) control.
11. **RS-485:** Far distance RS232 control interface.
    **RJ45: pin1 – 485 TX-B**
    **pin2 – 485 TX-A**
    **pin3 ~ pin6 – GND**
    **pin7 – 485 RX-A**
    **pin8 – 485 RX-B**
12. **Power:** Connect power core.

**Note :**

RS232 Control: The USB, RS232 and RS485 ports share one UART port.

The priority of USB, RS232, and RS485 is as below:

USB port > RS232(RS485)

For example, if you connect USB line from control source, the RS232(RS485) port will be useless. This also means that if you want to use RS232 or RS485 port to control device, the USB port can't be connected.

However, RS232 or RS485 can be selected by the DIP switch.

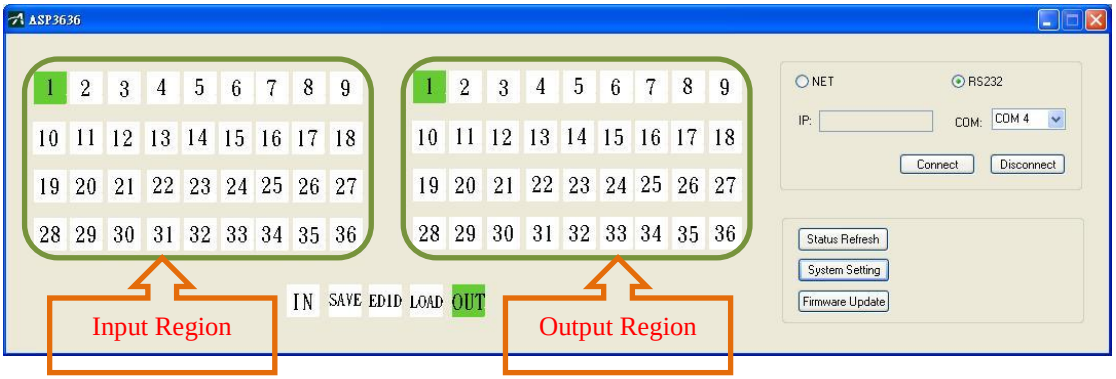
➡ DIP switch OFF(Down) : RS232.

➡ DIP switch ON(Up) : RS485.

Besides, if you want to control from USB port, please install the driver into your control source like PC.

# HDMI 36 x 36 Matrix Button Examples

## Button Control Path: 1 – Host Button 2 – Software



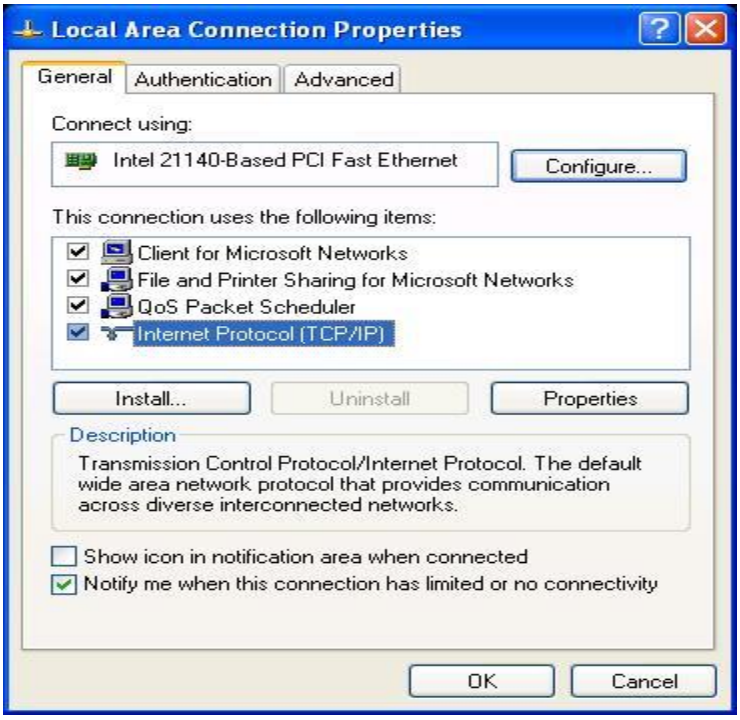

### #Firmware Update Module

Update .hex file

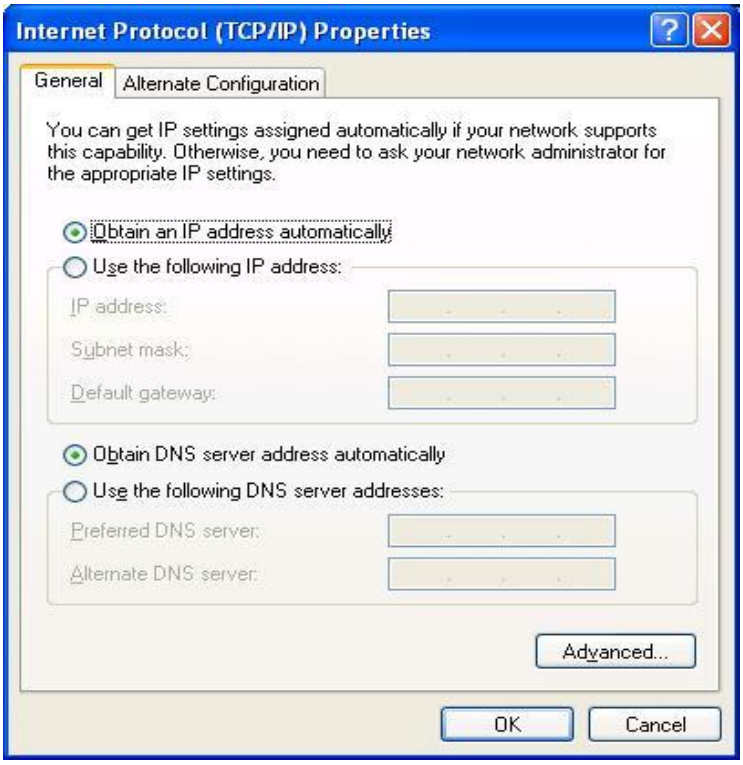
Step1: The 36x36 matrix maintain power off status.

Step2: Connect the 36x36 matrix and the PC with Ethernet interface.

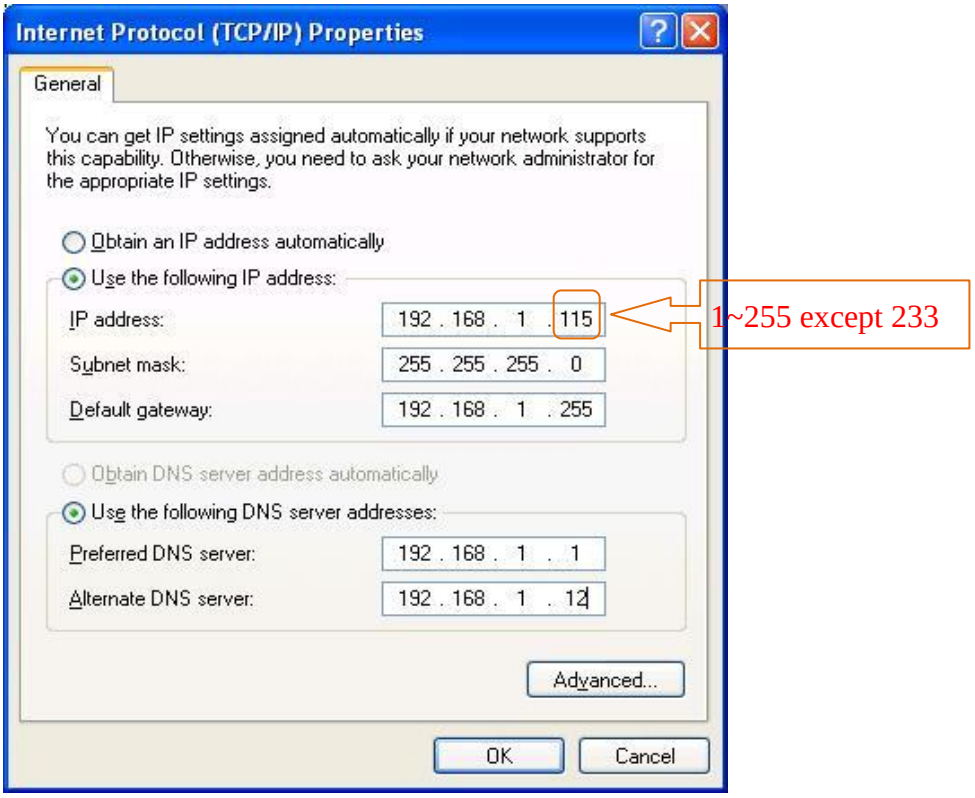
Step3: Open PC TCP/IP setting



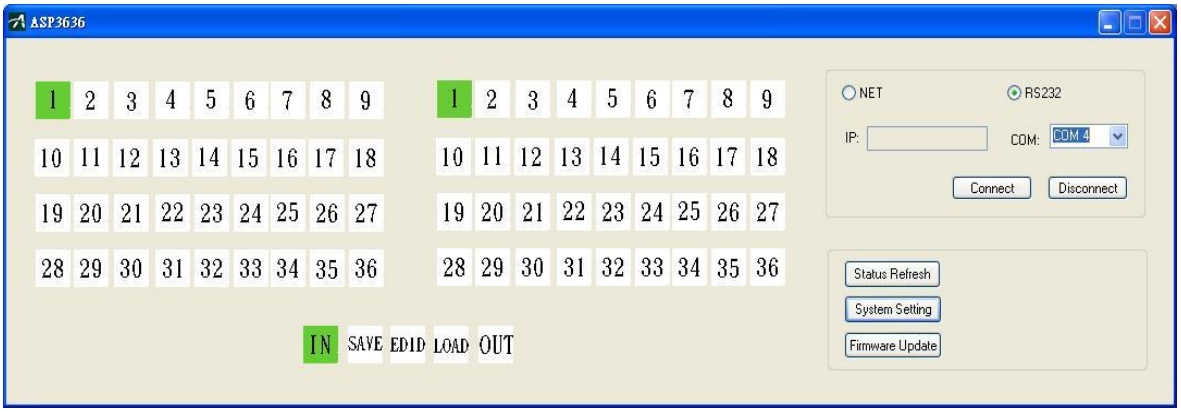
If your PC network domain is 192.168.1.XXX(XXX is from 1~255, 233 is not included), you can set TCP/IP like this.



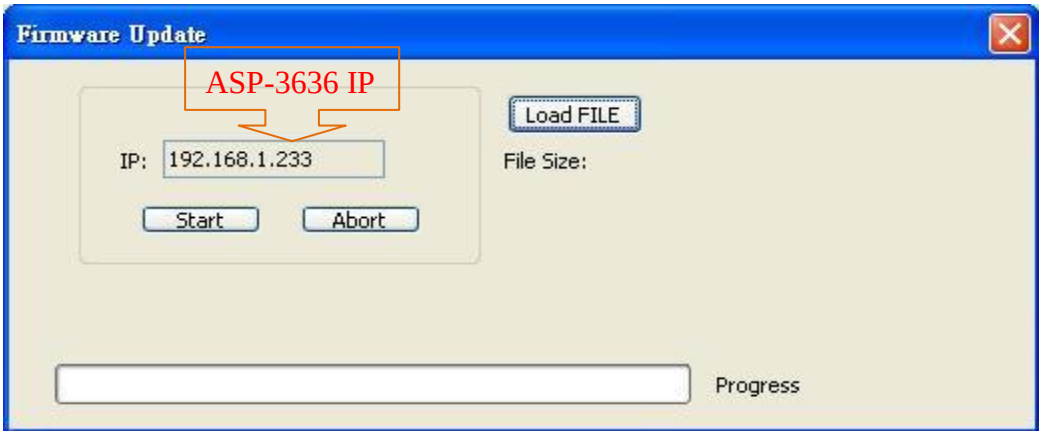

If your PC network domain is not 192.168.1.XXX, please "directly" connect your PC and ASP-3636 with a LAN cable and set IP like this.



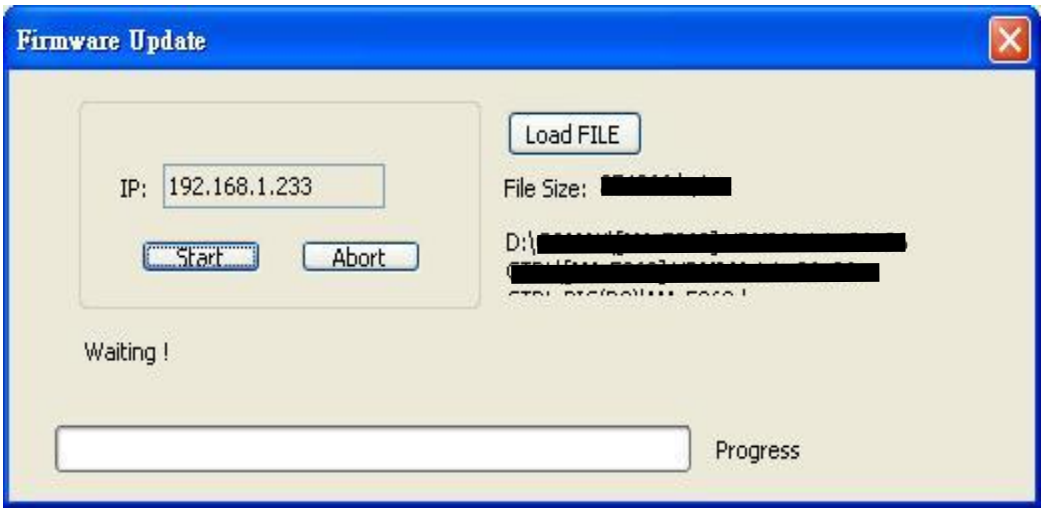
Step4: Open the software.



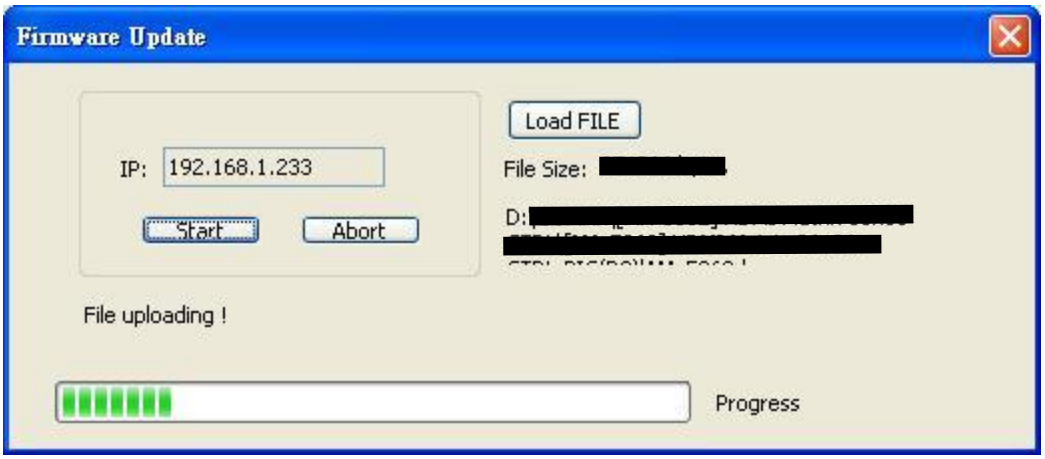

Step5: Press Firmware Update button.

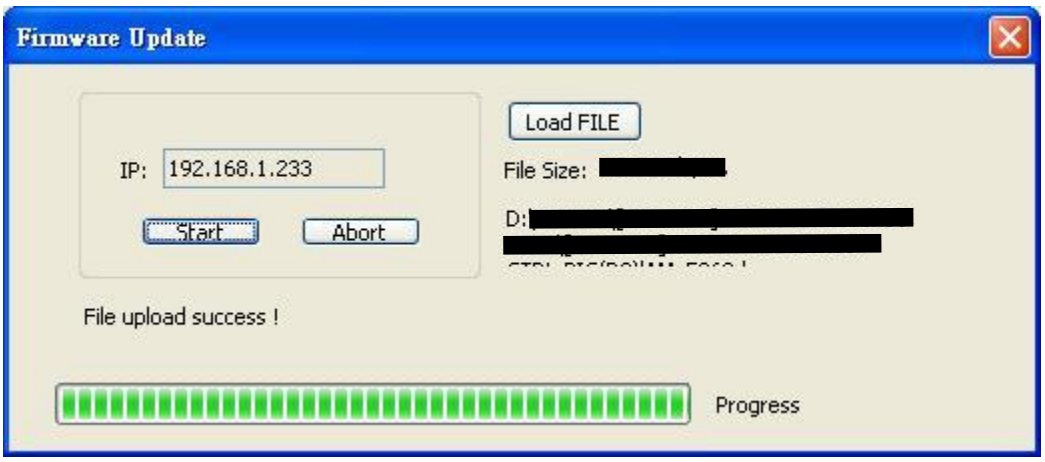



Step6: Load .hex file and press start.



Step7: Power on the AV-GM07N3-S1




Step8: Please reset the 36x36 matrix when firmware update finished.

**1. The 36x36 matrix .hex firmware update IP is fixed. 192.168.1.233.
Please confirm the PC is the same network domain as the 36x36 matrix.

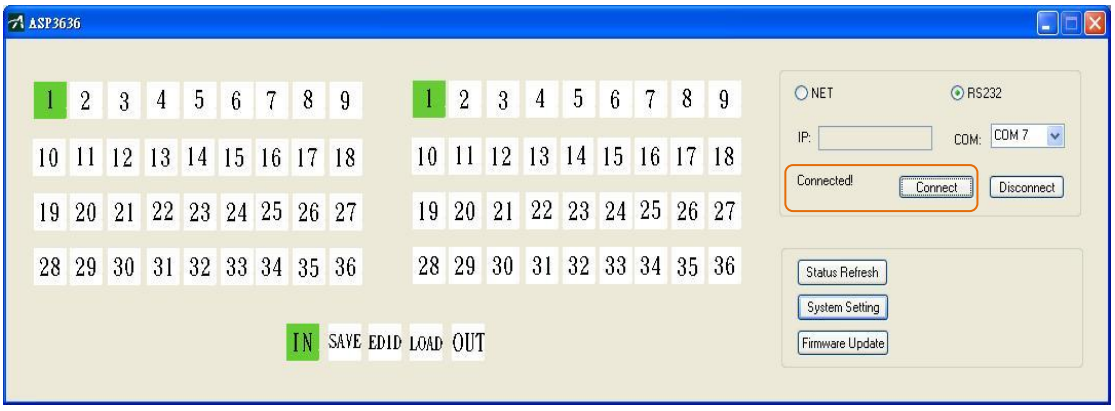
2. Sometimes the .hex firmware update can't start or interrupt in the processing, please retry again.

Update .bin file

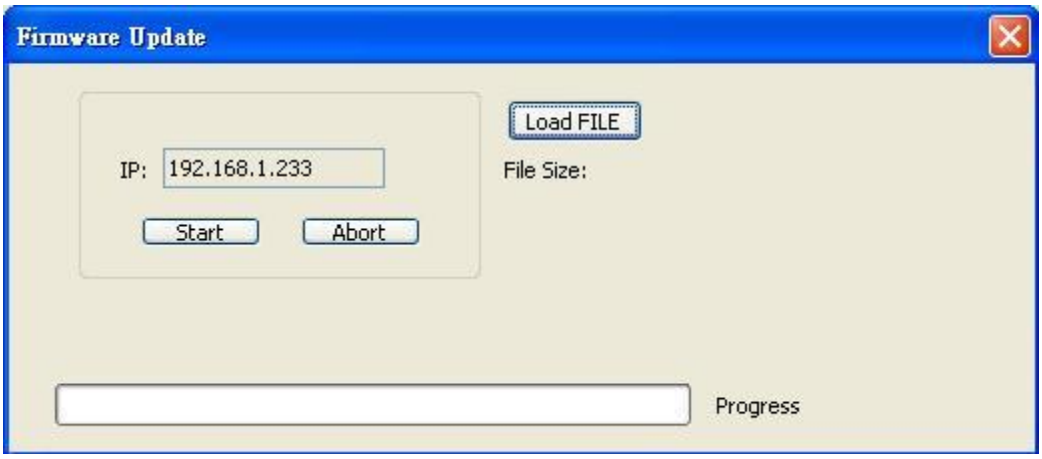
Step1: The 36x36 matrix maintain power on status.

Step2: Connect the 36x36 matrix and the PC with RS232 interface.

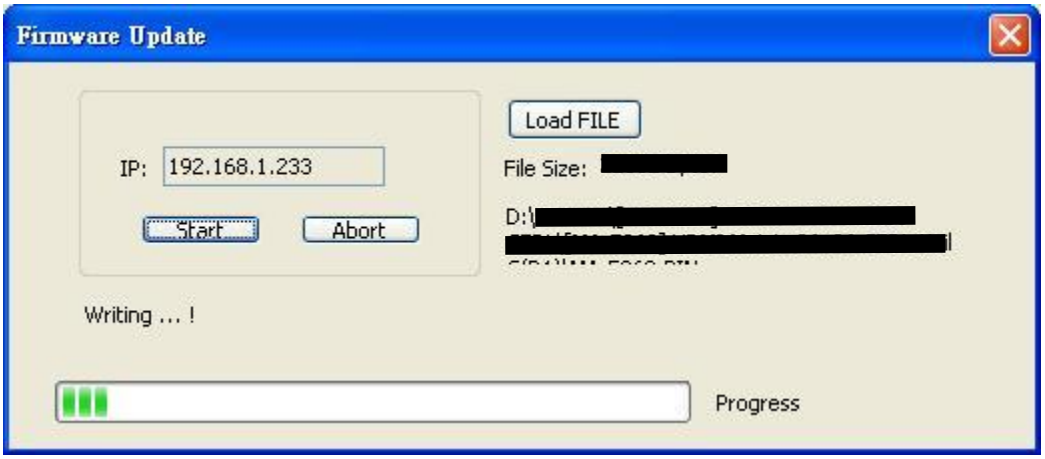
Step3: Open the software and select the COM port to connect.

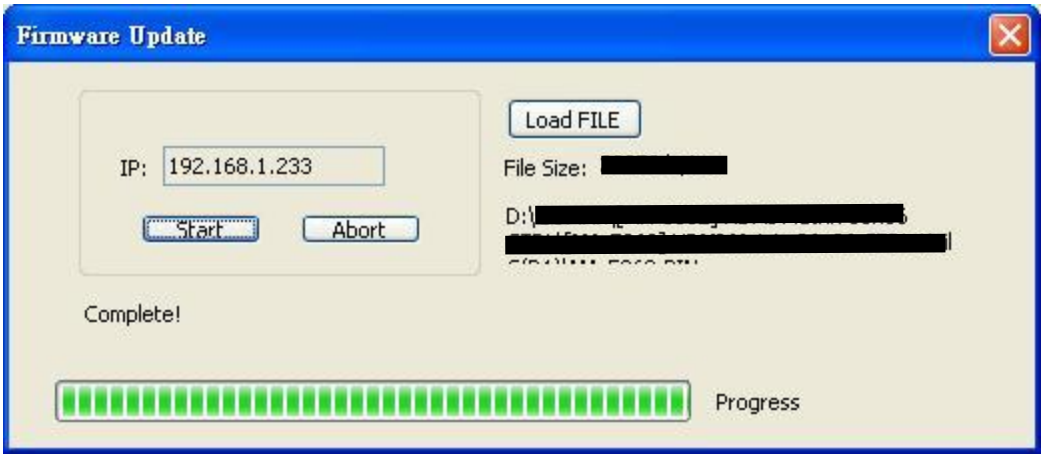



Step4: Press Firmware Update button.




Step5: Load .bin file and start to update.

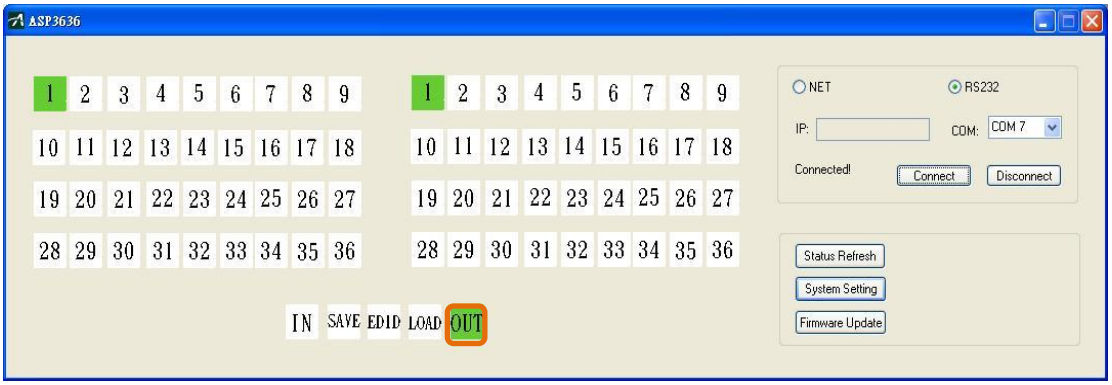





Step6: Please reset(power off then power on) the 36x36 matrix when firmware update finished.

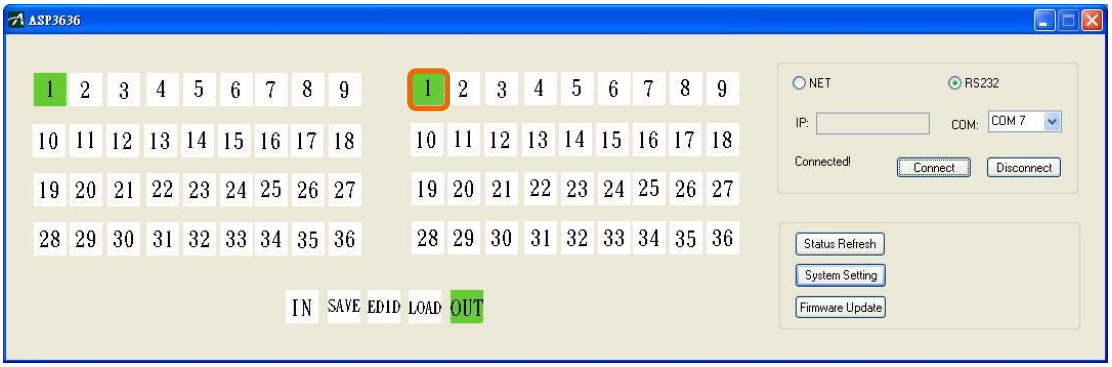
#Observe output status

Step 1: Press output button, if output button light, you can skip this step.

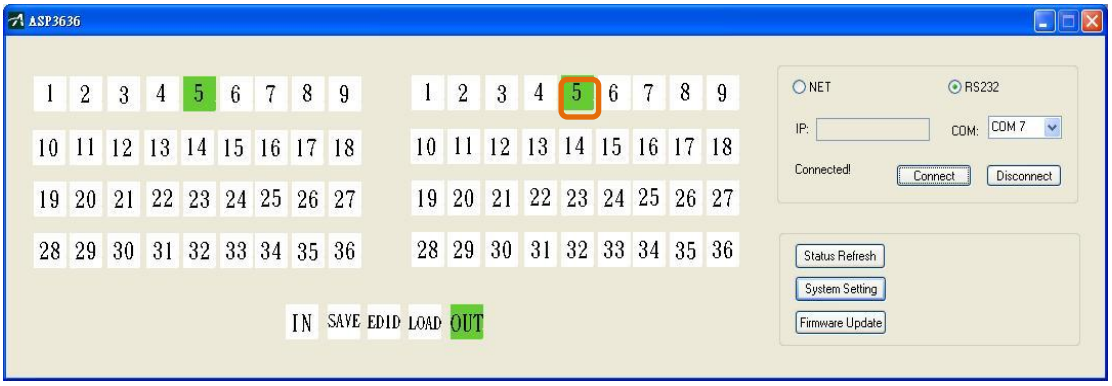



Step 2: Press output button X, if output region X light, you can skip this step.

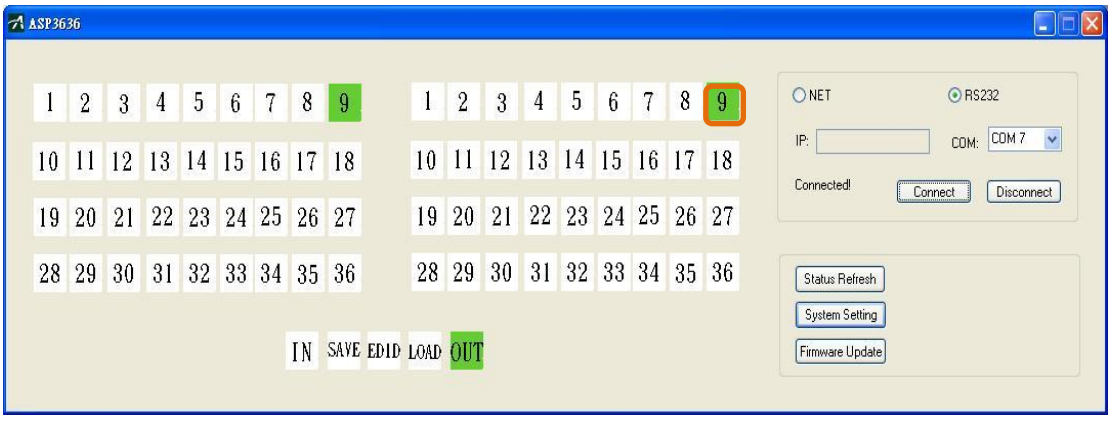
Output 1 <-> Input 1




Output 5 <-> Input 5




Output 9 <-> Input 9




#Set different input to specific output

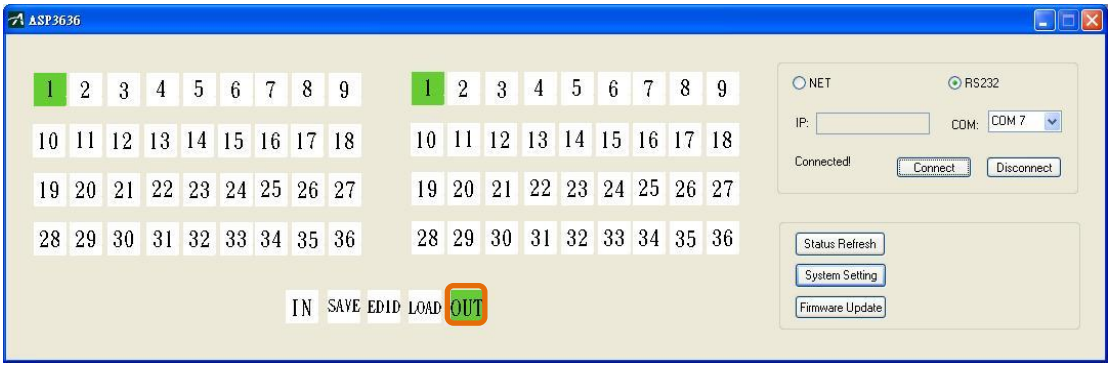
Now status: Input 1 <-> Output 1

Input 2 <-> Output 2

Desired status: Input3 <-> Output 1

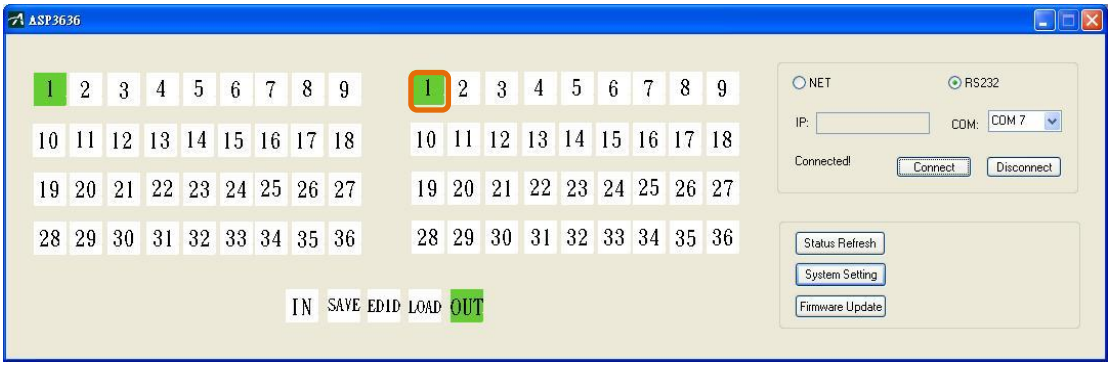
Input 4 <-> Output 2

Step 1: Press output button, if output button light, you can skip this step.

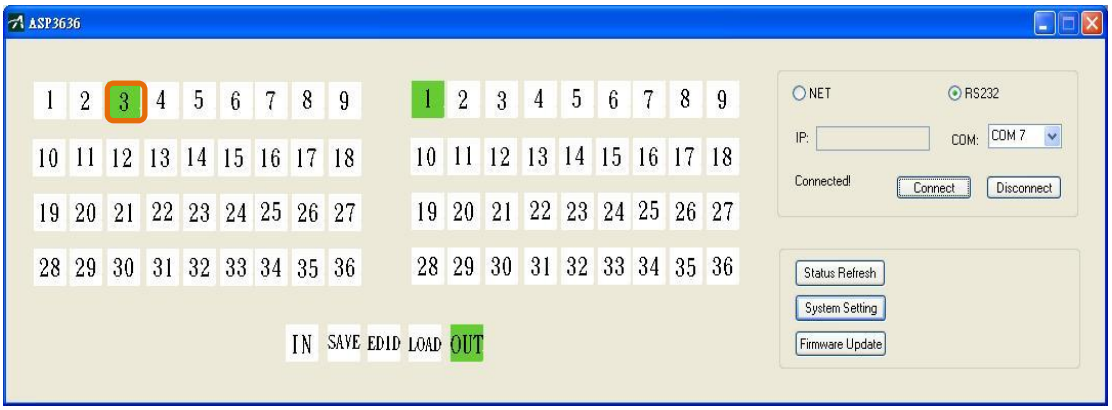



Step 2: Press output region 1, if output region 1 light, you can skip this step.

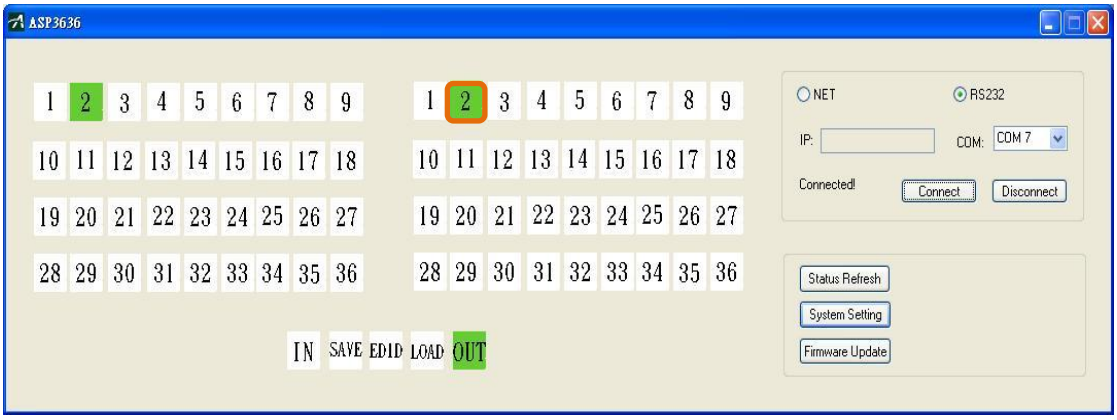
Output 1 <-> Input 1



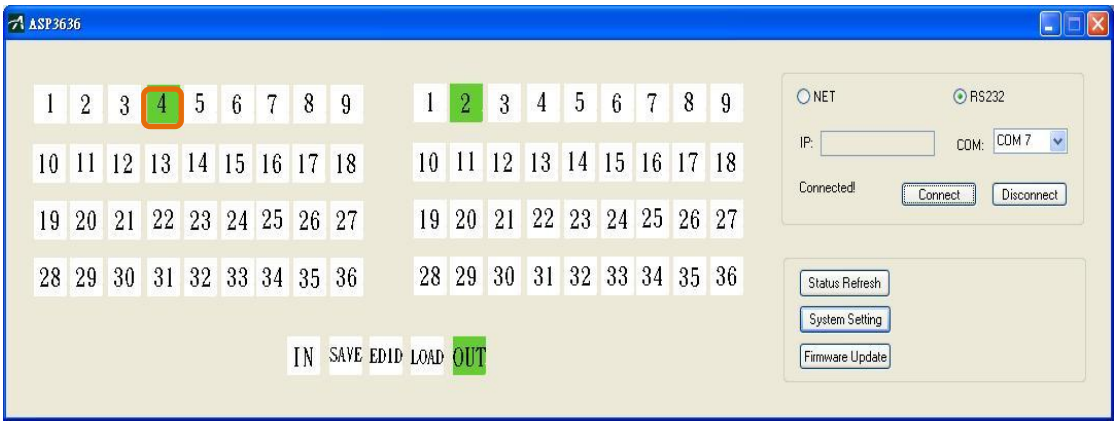

Step 3: Press input region 3, if input region 3 light, you can skip this step.
Output 1 <-> Input 3




Step 4: Press output region 2, if output region 2 light, you can skip this step.
Output 2 <-> Input 2

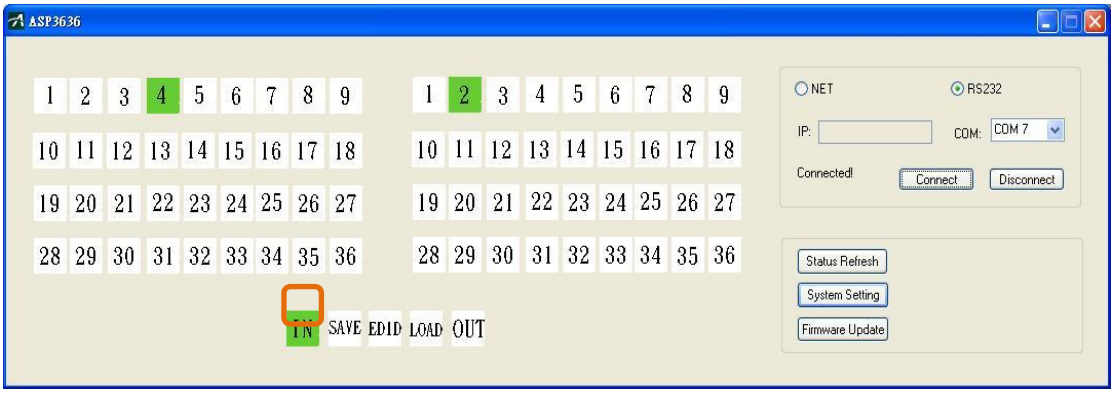



Step 5: Press input region 4, if input region 4 light, you can skip this step.
Output 2 <-> Input 4



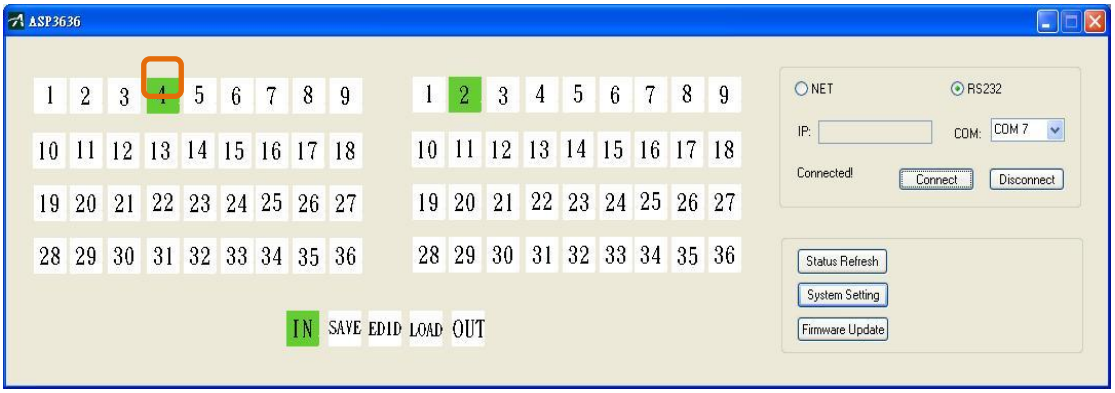

#Observe input status

Step 1: Press input button, if input button light, you can skip this step.

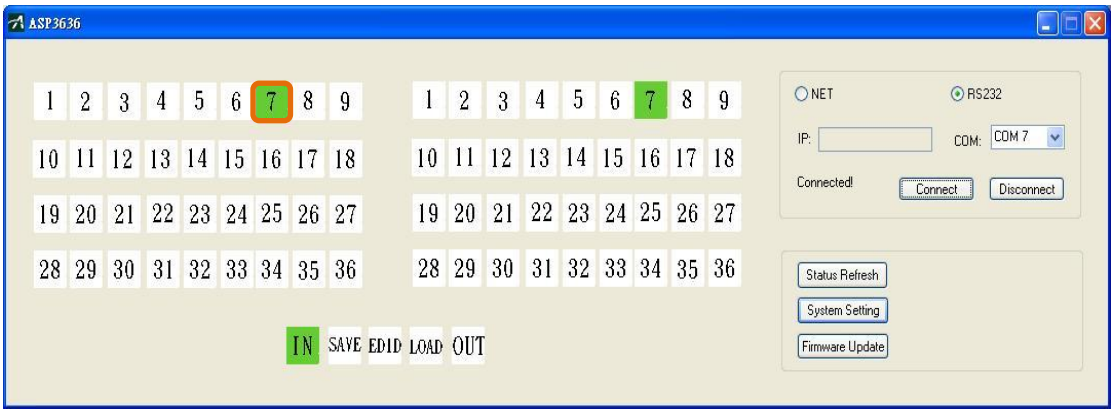



Step 2: Press output button X, if output region X light, you can skip this step.

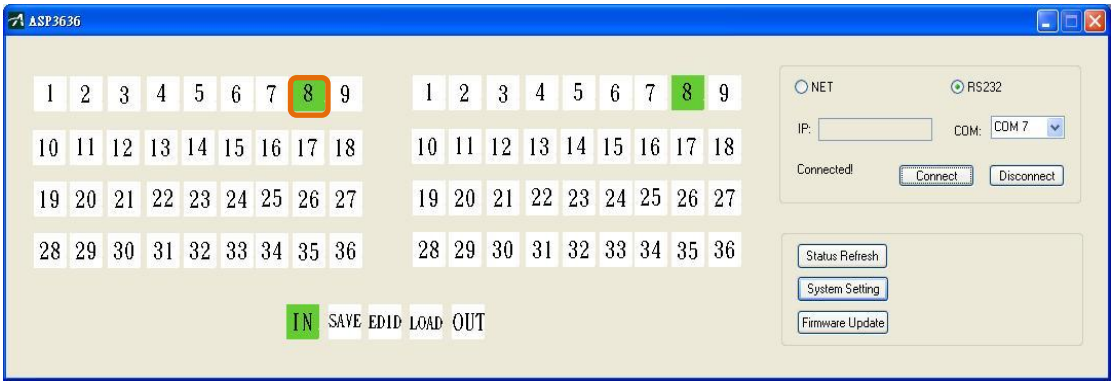
Input 4 <-> Output 2




Input 7 <-> Output 7




Input 8 <-> Output 8




#Set different outputs to the specific input

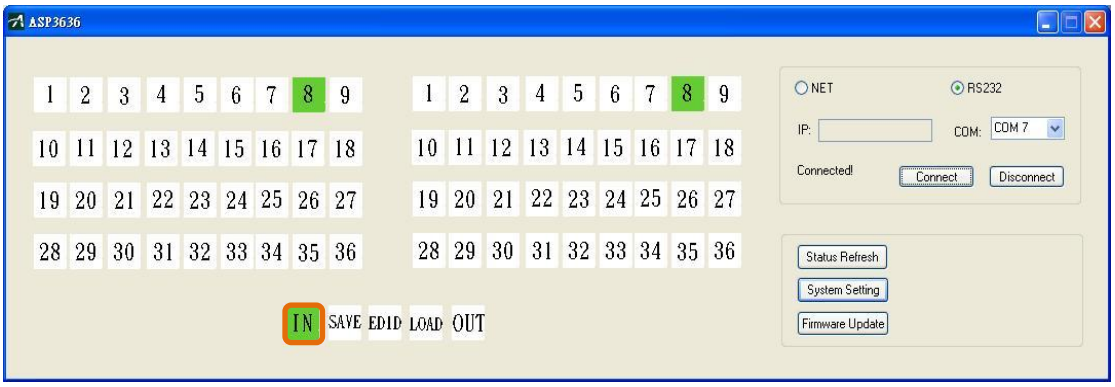
Now status: Input 24 <-> Output 24

Input 7 <-> Output 7

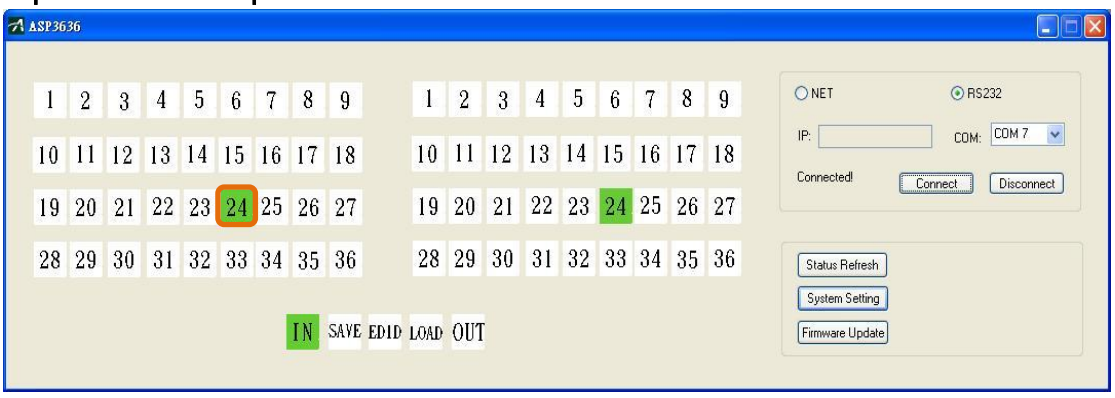
Desired status: Input 24 <-> Output 11, 12, 13, 14, 15

Input 7 <-> Output 16, 17, 18

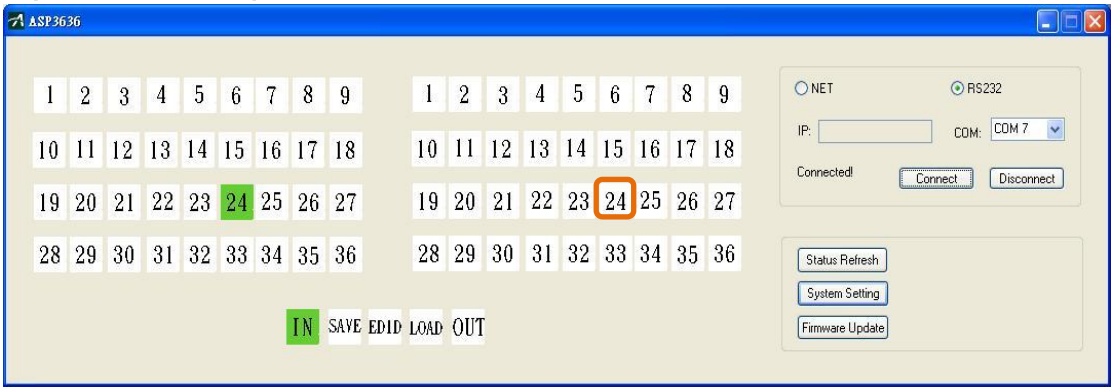
Step 1: Press input button, if input button light, you can skip this step.



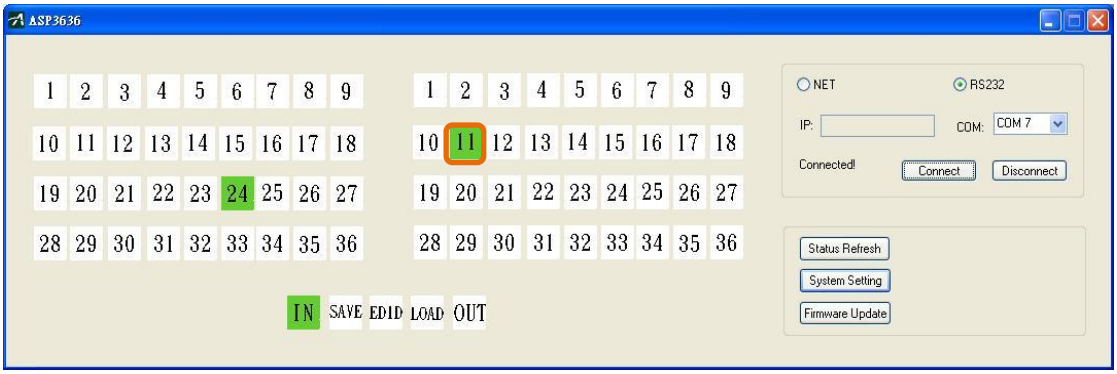

Step 2: Press input region 24, if input region 24 light, you can skip this step.
Input 24 <-> Output 24



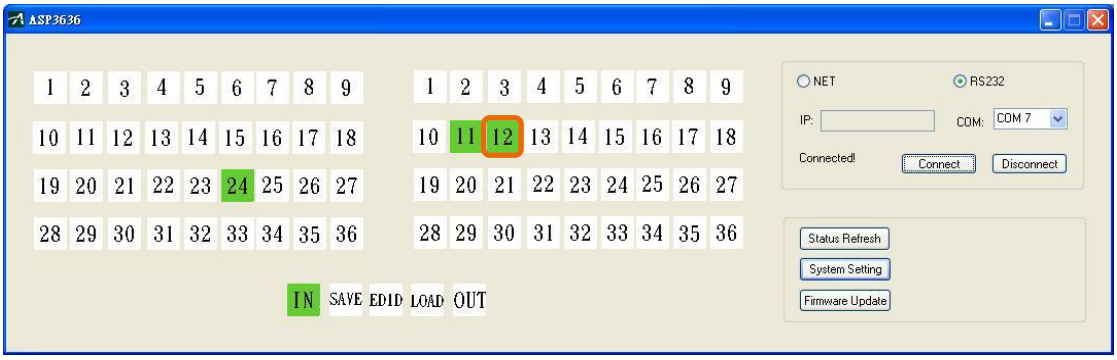

Step 3: Press output region 24, if output region 24 dim, you can skip this step.
Input 24 <-> Output None



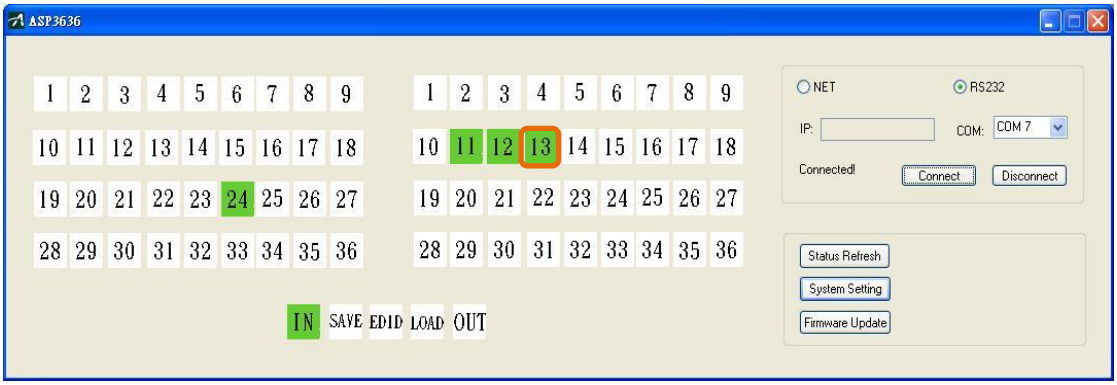

Step 4: Press output region 11, if output region 11 light, you can skip this step.
Input 24 <-> Output 11



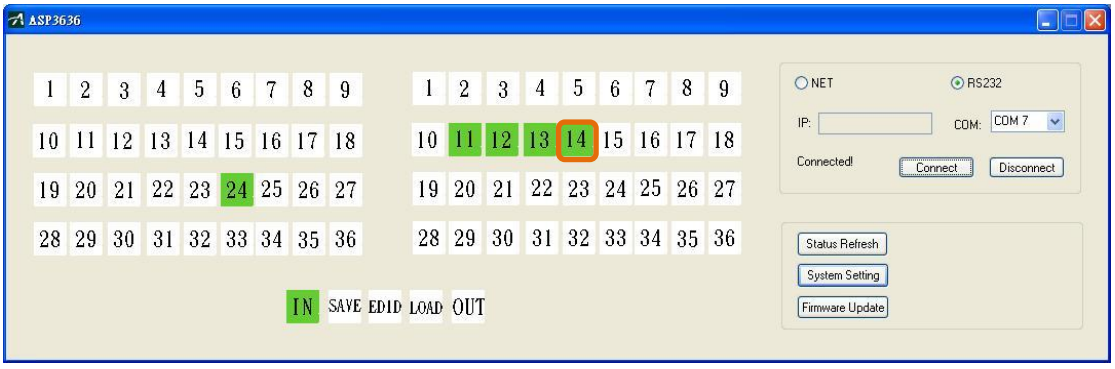

Step 5: Press output region 12, if output region 12 light, you can skip this step.
Input24 <-> Output 11, 12



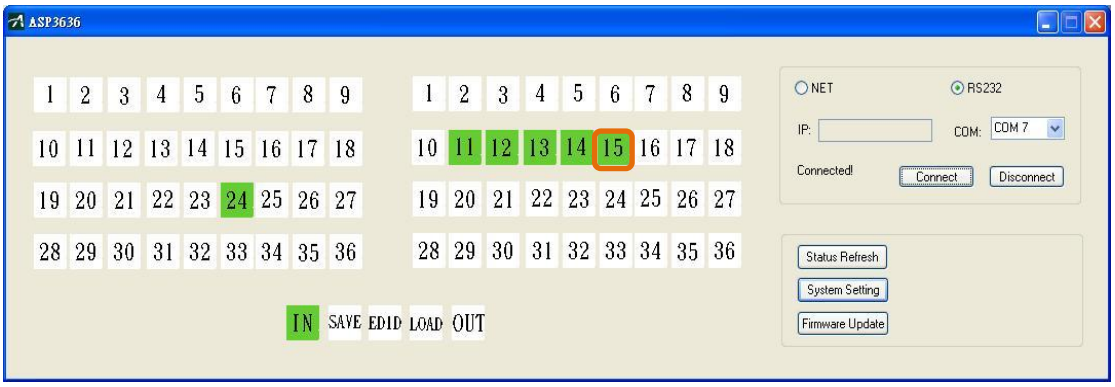

Step 6: Press output region 13, if output region 13 light, you can skip this step.
Input 24 <-> Output 11, 12, 13



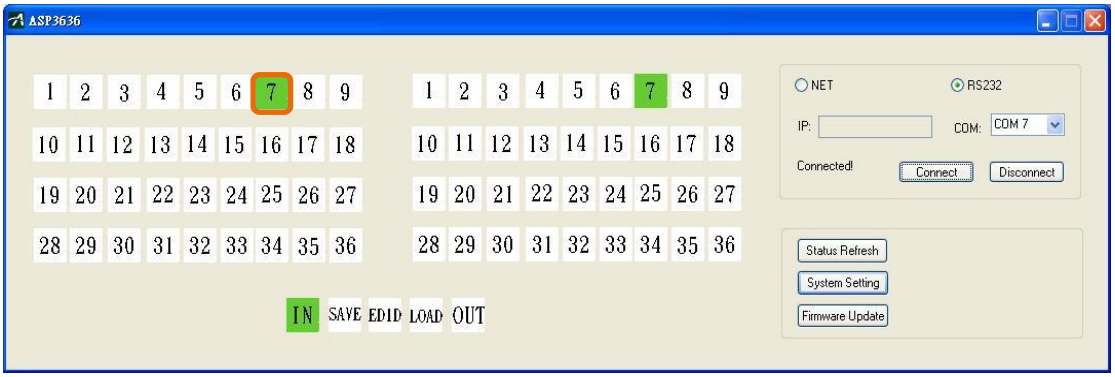

Step 7: Press output region 14, if output region 14 light, you can skip this step.
Input 24 <-> Output 11,12,13,14



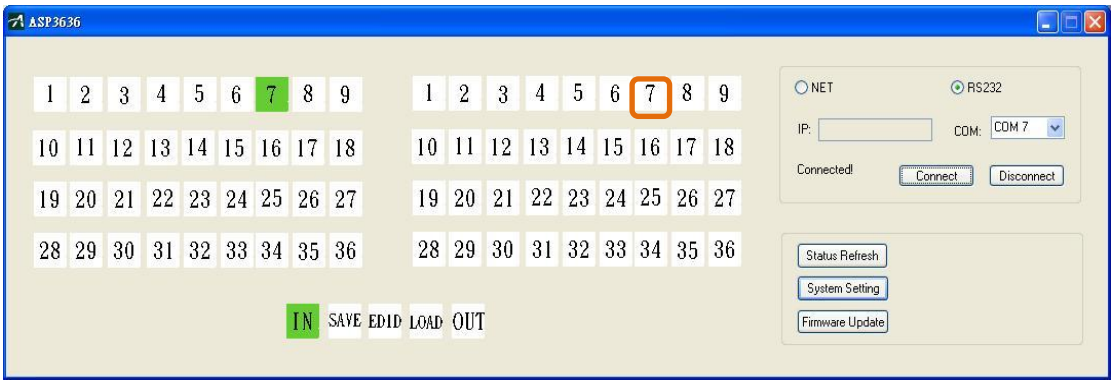

Step 8: Press output region 15, if output region 15 light, you can skip this step.
Input 24 <-> Output 11, 12, 13, 14, 15



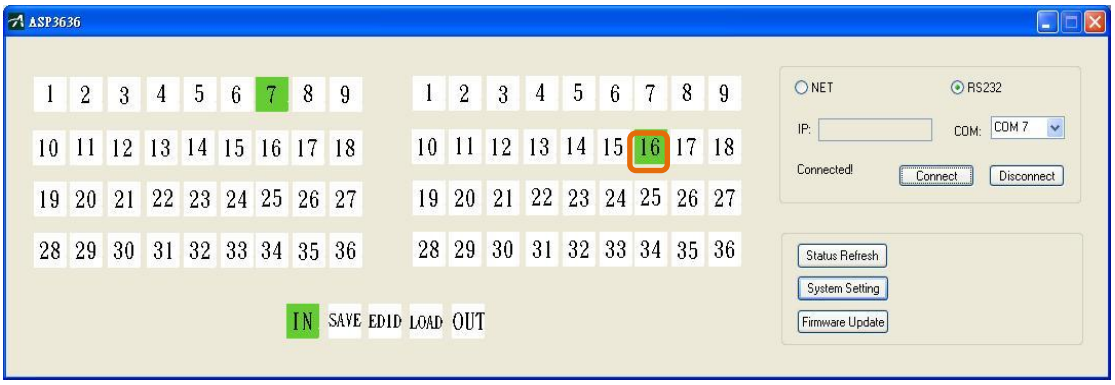

Step 9: Press input region 7.
Input 7 <-> Output 7



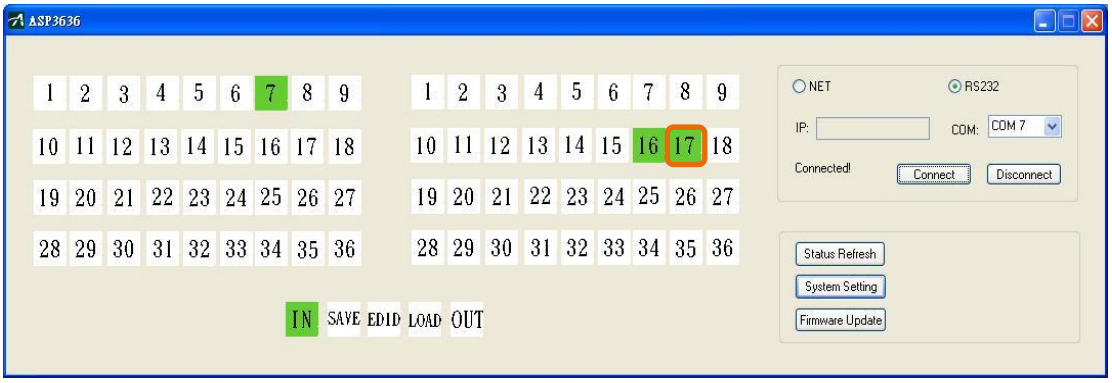

Step 10: Press output region 7, if output region 7 dim, you can skip this step.
Input 7 <-> Output None



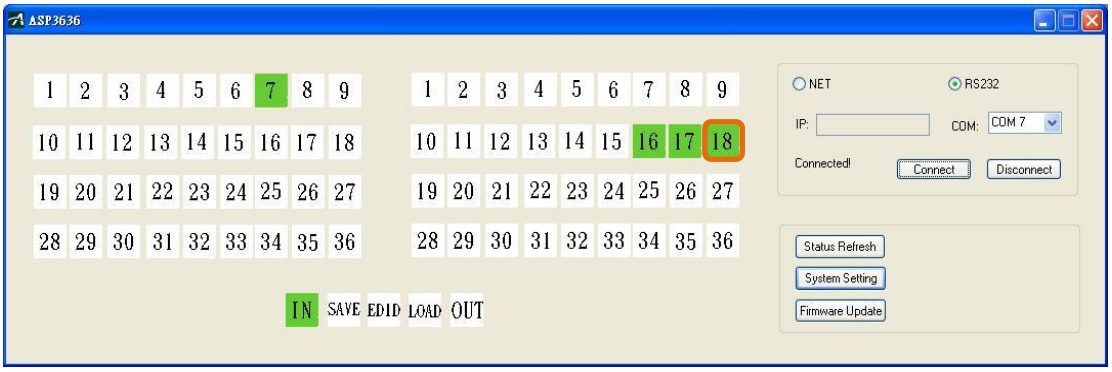

Step 11: Press output region 16, if output region 16 light, you can skip this step.
Input 7 <-> Output 16




Step 12: Press output region 17, if output region 17 light, you can skip this step.
Input 7 <-> Output 16, 17




Step 13: Press output region 18, if output region 18 light, you can skip this step.
Input 7 <-> Output 16, 17, 18




#Cancel outputs for the specific input

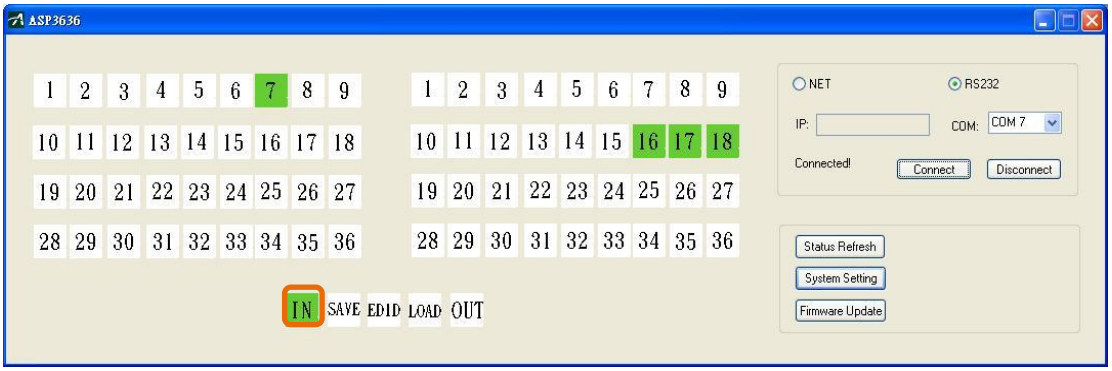
Now status: Input 24 <-> Output 11, 12, 13, 14, 15

Input 7 <-> Output 16, 17, 18

Desired status: Input 24 <-> Output 11, 12, 13

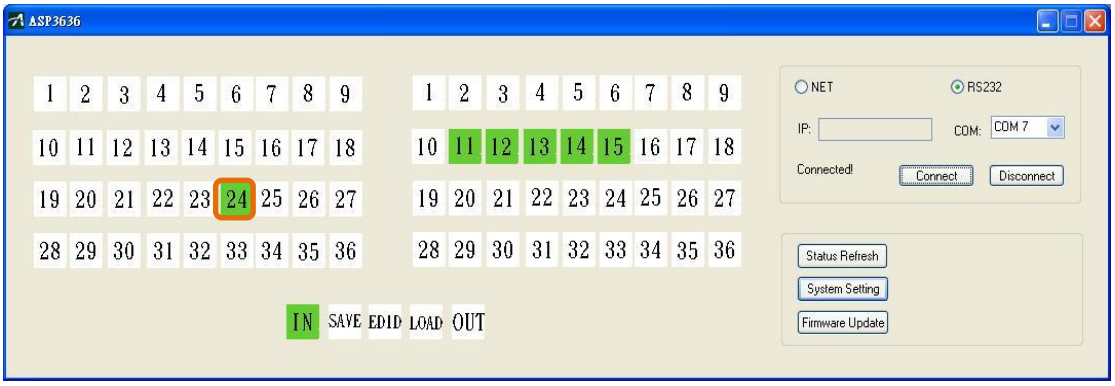
Input 7 <-> Output 16, 17

Step 1: Press input button, if input button light, you can skip this step.



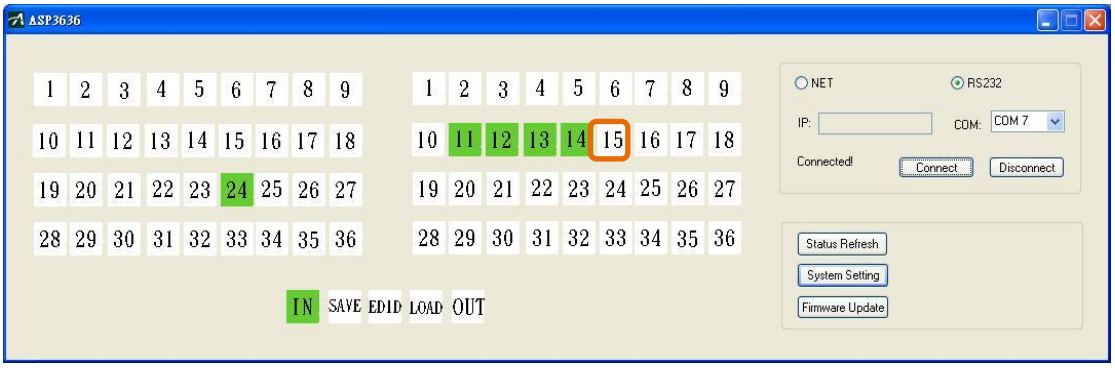

Step 2: Press input region 24, if input region 24 light, you can skip this step.

Input 24 <-> Output 11, 12, 13, 14, 15



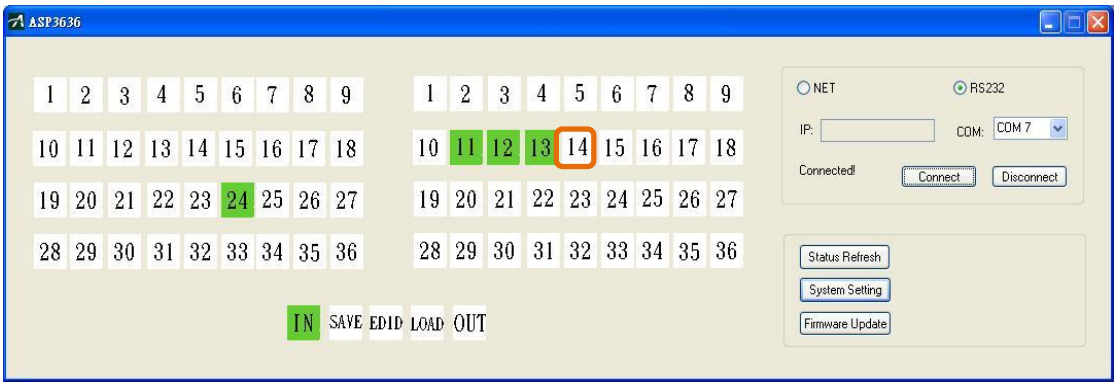

Step 3: Press output region 15, if output region 15 dim, you can skip this step.

Input 24 <-> Output 11, 12, 13, 14



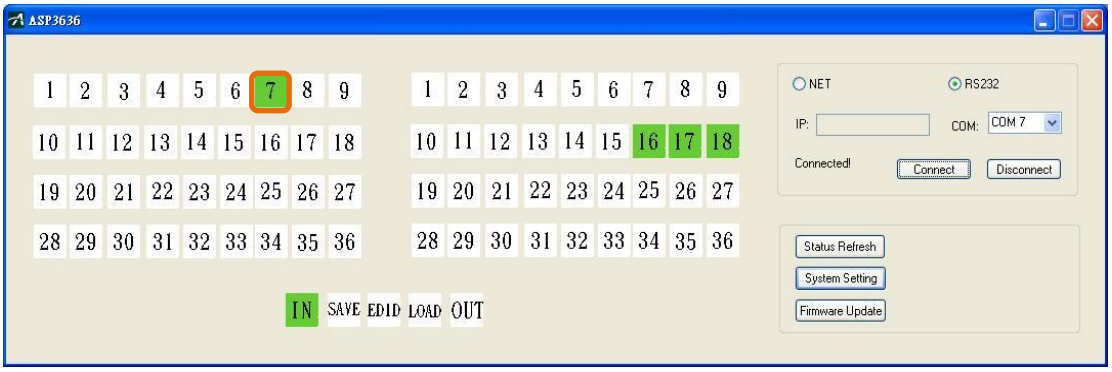

Step 4: Press output region 14, if output region 14 dim, you can skip this step.

Input 24 <-> Output 11, 12, 13



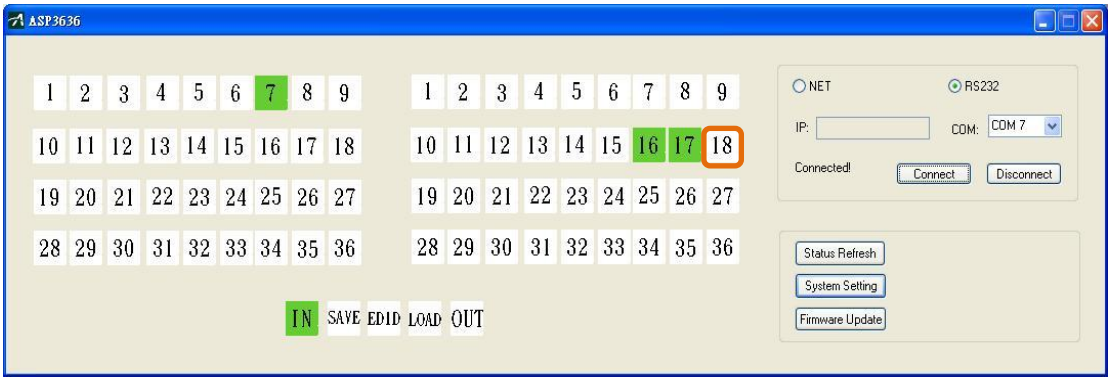

Step 5: Press input region 7

Input 7 <-> Output 16, 17, 18



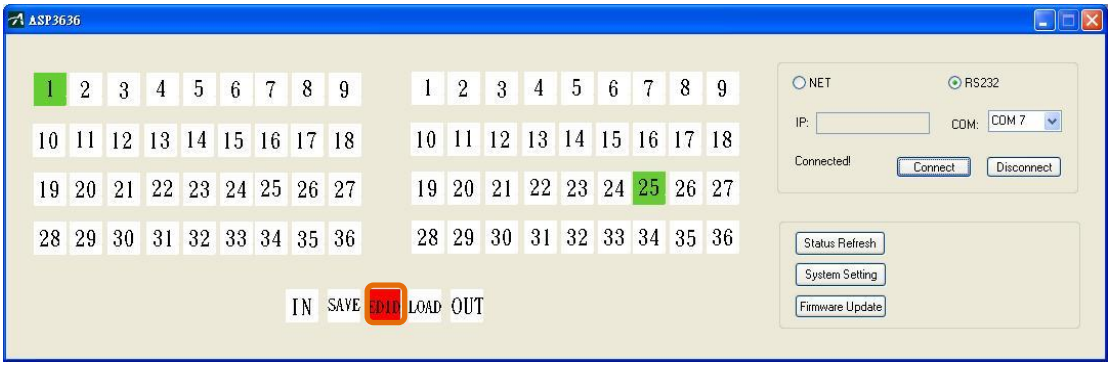

Step 6: Press output region 18, if output region 18 dim, you can skip this step.

Input 7 <-> Output 16, 17

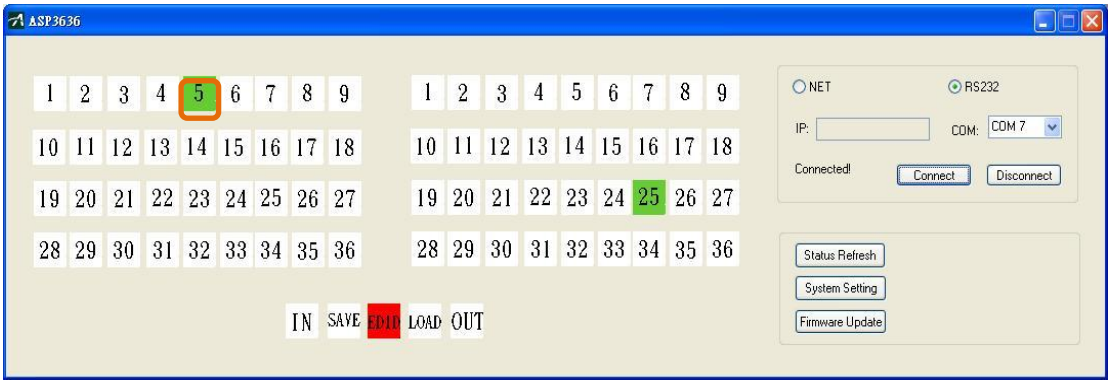



#Observe each input EDID

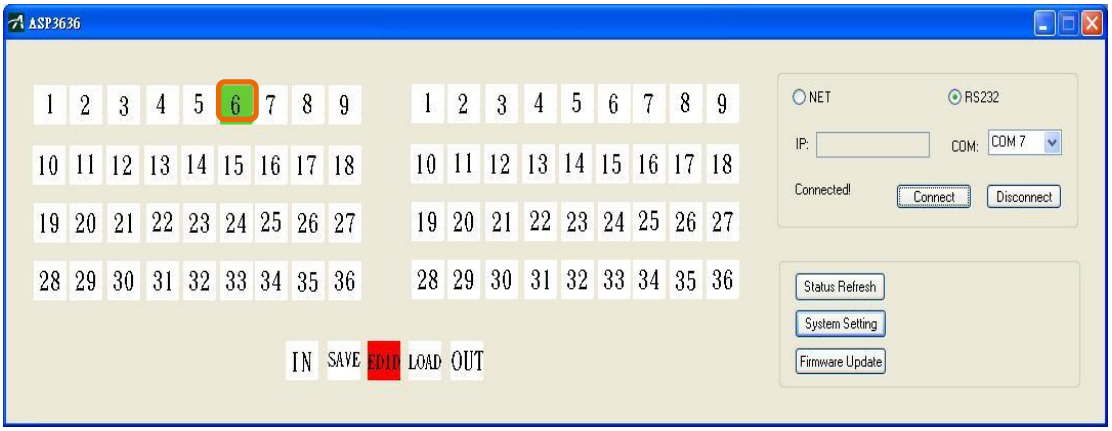
Step 1: Press EDID button, if EDID button light red, you can skip this step.



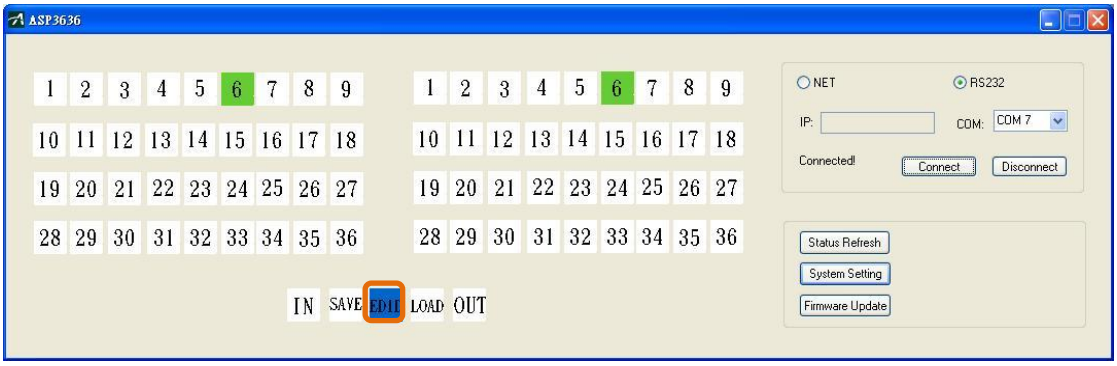

Step 2: Press input region X, if input region X light, you can skip this step.
Input 5 EDID <-> Default EDID number 25




Step 3: Press input region X, if input region X light, you can skip this step.




Step 4: Press EDID button, if EDID button light blue, you can skip this step.
Input 6 EDID <-> Output number 6 EDID




#Set each input EDID

| RED | Color | Audio | Resolution | 2D/3D |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 1 | 36 bits | Bitstream | Full HD | 3D |
| 2 | 36 bits | Multi Ch | Full HD | 3D |
| 3 | 36 bits | 2Ch | Full HD | 3D |
| 4 | 30 bits | Bitstream | Full HD | 3D |
| 5 | 30 bits | Multi Ch | Full HD | 3D |
| 6 | 30 bits | 2Ch | Full HD | 3D |
| 7 | 24 bits | Bitstream | Full HD | 3D |
| 8 | 24 bits | Multi Ch | Full HD | 3D |
| 9 | 24 bits | 2Ch | Full HD | 3D |
| 10 | 36 bits | Bitstream | HD | 3D |
| 11 | 36 bits | Multi Ch | HD | 3D |
| 12 | 36 bits | 2Ch | HD | 3D |
| 13 | 30 bits | Bitstream | HD | 3D |
| 14 | 30 bits | Multi Ch | HD | 3D |
| 15 | 30 bits | 2Ch | HD | 3D |
| 16 | 24 bits | Bitstream | HD | 3D |
| 17 | 24 bits | Multi Ch | HD | 3D |
| 18 | 24 bits | 2Ch | HD | 3D |
| 19 | 36 bits | Bitstream | Full HD | 2D |
| 20 | 36 bits | Multi Ch | Full HD | 2D |
| 21 | 36 bits | 2Ch | Full HD | 2D |
| 22 | 30 bits | Bitstream | Full HD | 2D |
| 23 | 30 bits | Multi Ch | Full HD | 2D |
| 24 | 30 bits | 2Ch | Full HD | 2D |
| 25 | 24 bits | Bitstream | Full HD | 2D |
| 26 | 24 bits | Multi Ch | Full HD | 2D |
| 27 | 24 bits | 2Ch | Full HD | 2D |
| 28 | 36 bits | Bitstream | HD | 2D |
| 29 | 36 bits | Multi Ch | HD | 2D |
| 30 | 36 bits | 2Ch | HD | 2D |
| 31 | 30 bits | Bitstream | HD | 2D |
| 32 | 30 bits | Multi Ch | HD | 2D |
| 33 | 30 bits | 2Ch | HD | 2D |
| 34 | 24 bits | Bitstream | HD | 2D |
| 35 | 24 bits | Multi Ch | HD | 2D |
| 36 | 24 bits | 2Ch | HD | 2D |

Now status: Input 31 EDID <-> RED number 25

| | | | | |
|---|---|---|---|---|
| 25 | 24 bits | Bitstream | Full HD | 2D |

Input 32 EDID <-> RED number 25

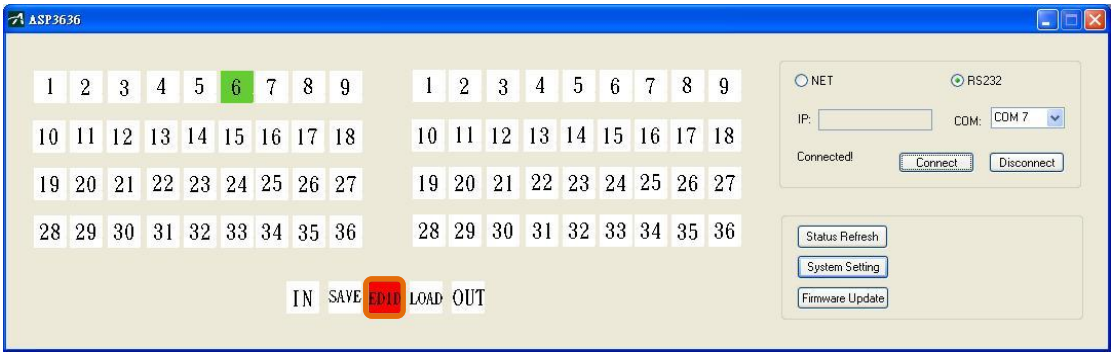
| | | | | |
|---|---|---|---|---|
| 25 | 24 bits | Bitstream | Full HD | 2D |

Desired status: Input 31 <-> RED number 22

| | | | | |
|---|---|---|---|---|
| 22 | 30 bits | Bitstream | Full HD | 2D |

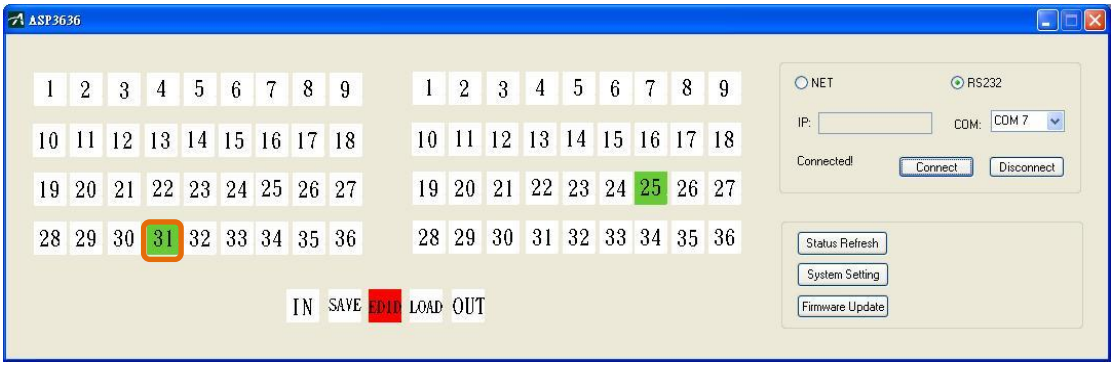
Input 32 <-> BLUE number 1(Output 1 record EDID)

Step 1: Press EDID button, if EDID button light red, you can skip this step.




Step 2: Press input region 31, if input region 31 light, you can skip this step.

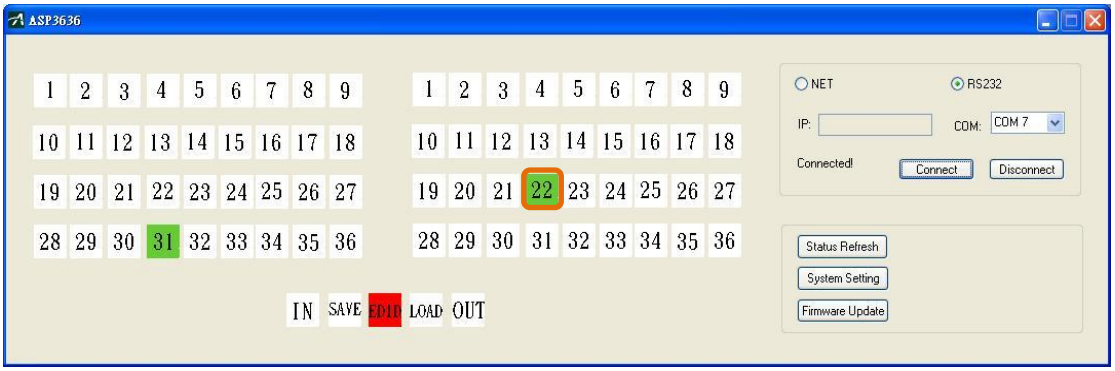
Input 31 EDID <-> default EDID number 25




Step 3: Press output region 22, if output region 22 light, you can skip this step.

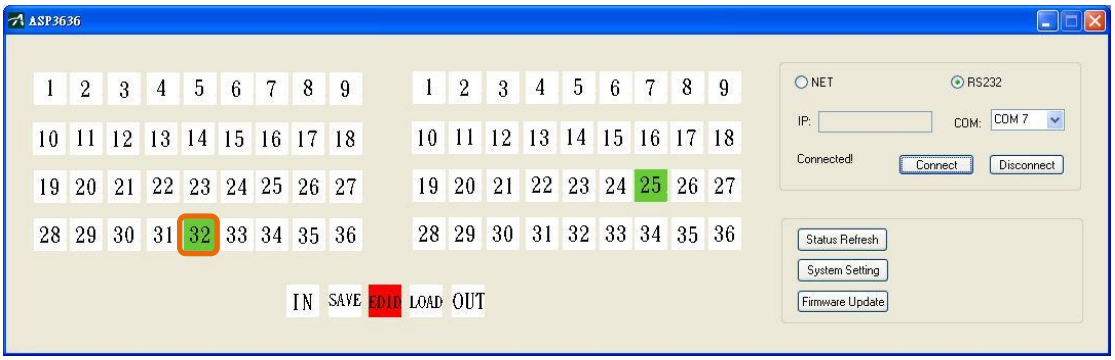
Input 31 EDID <-> default EDID number 22

**This process will perform about 10 seconds; output region 22 will be dim and light three times on the machine when finished.

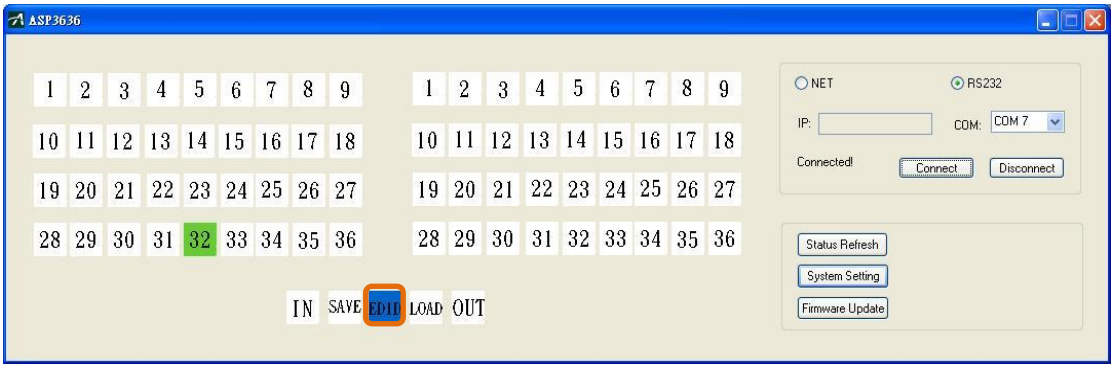



Step 4: Press input region 32, if input region 32 light, you can skip this step.

Input 32 EDID <-> default EDID number 25

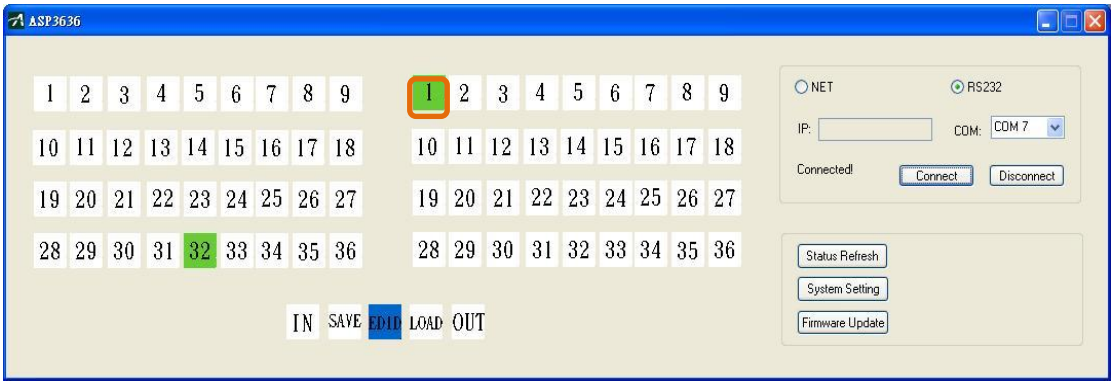



Step 5: Press EDID button, if EDID button light blue, you can skip this step.




Step 6: Press output region 1, if output region 1 light, you can skip this step.

Input 32 EDID <-> Output number 1 EDID




**This process will perform about 10 seconds; output region 1 will be dim and light three times on the machine when finished.

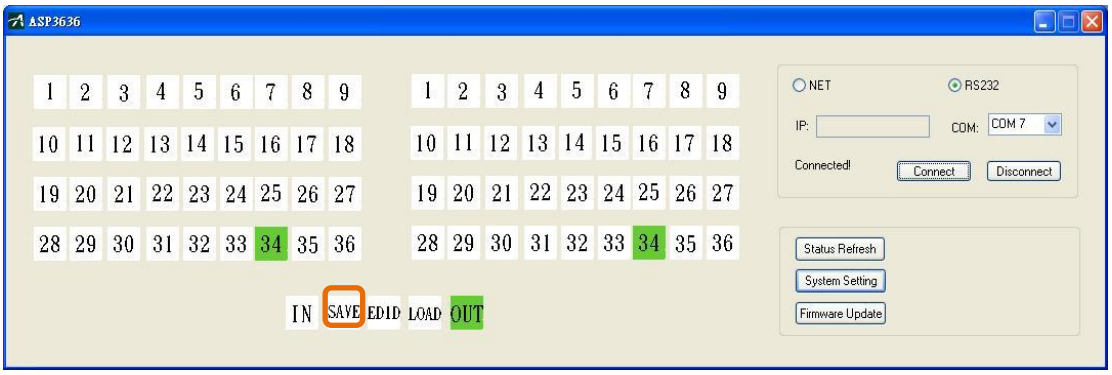
**The Save button & Load button only effective in channel setting, not include EDID setting.

Now status: Output 34 <-> Input 34
Output 35 <-> Input 35
Output 36 <-> Input 36

Next status: Output 34 <-> Input 36
Output 35 <-> Input 34
Output 36 <-> Input 35

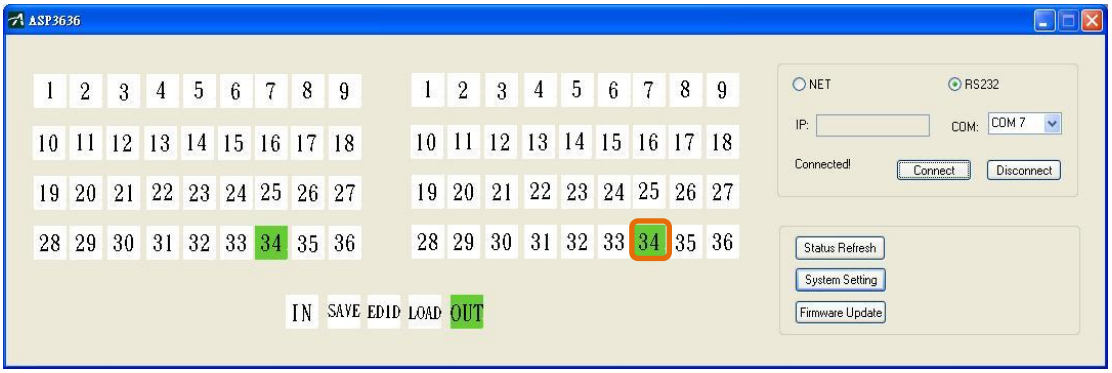
Return status: Output 34 <-> Input 34
Output 35 <-> Input 35
Output 36 <-> Input 36

Step 1: Press the Save button, the Save button will be light and dim, represent OK.



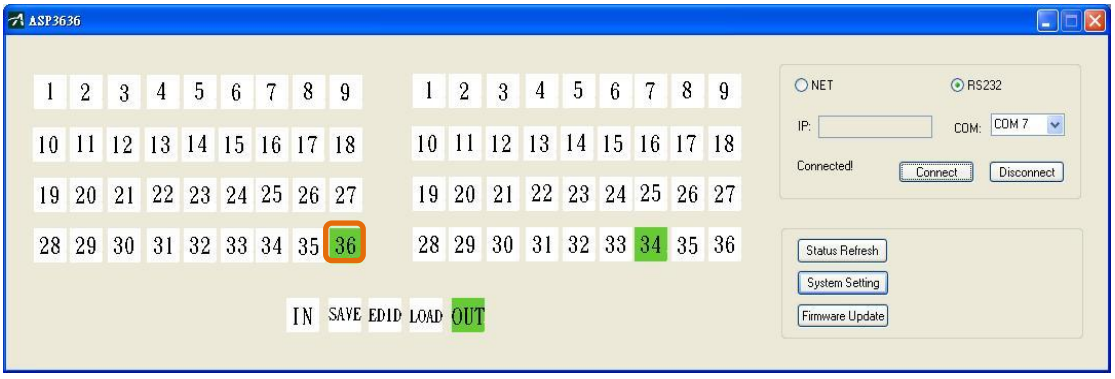

Step 2: Press output region 34, if output region 34 light, you can skip this step.

Output 34 <-> Input 34, Output 35 <-> Input 35, Output 36 <-> Input 36



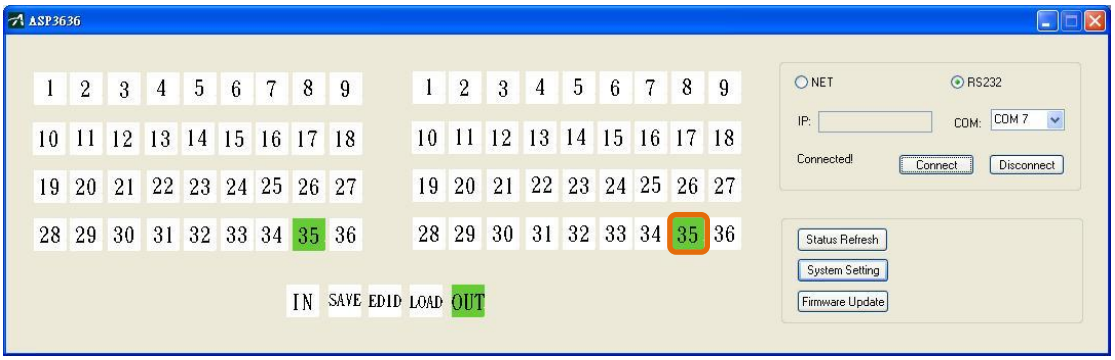

Step 3: Press input region 36.

Output 34 <-> Input 36, Output 35 <-> Input 35, Output 36 <-> Input 36



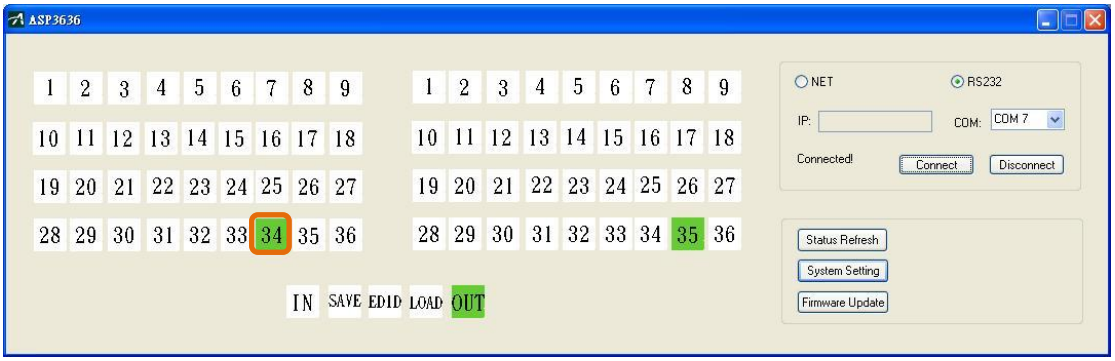

Step 4: Press output region 35

Output 34 <-> Input 36, Output 35 <-> Input 35, Output 36 <-> Input 36



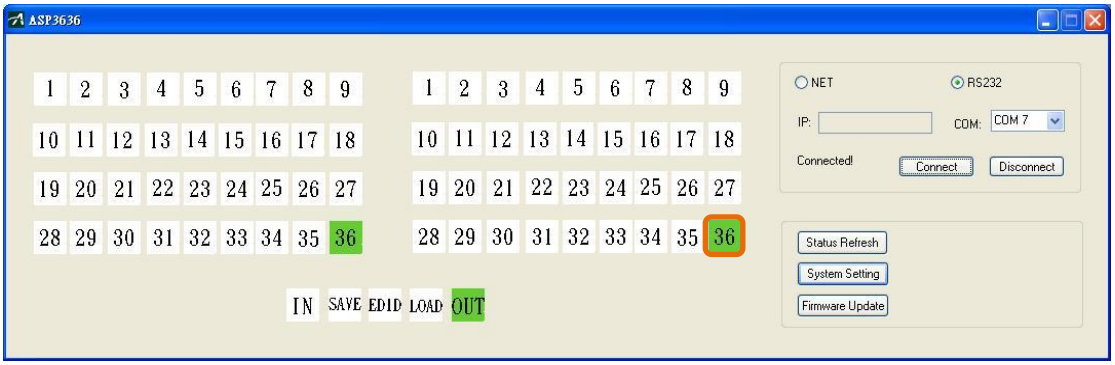

Step 5: Press input region 34.

Output 34 <-> Input 36, Output 35 <-> Input 34, Output 36 <-> Input 36



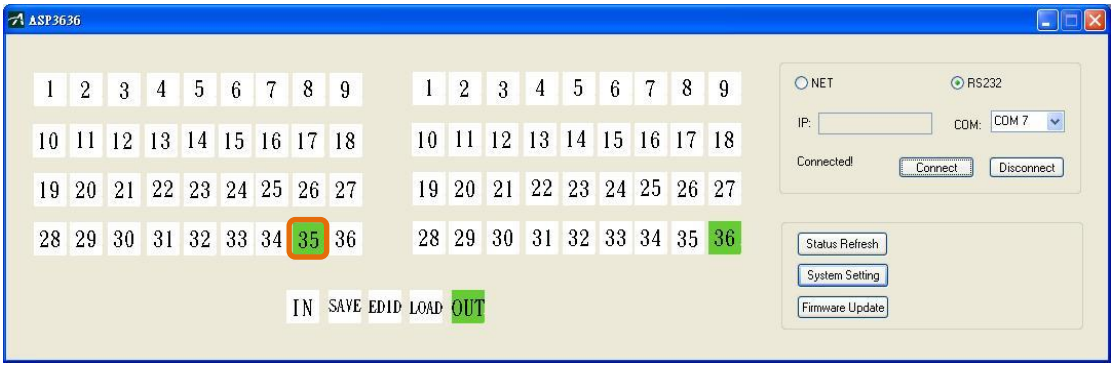

Step 6: Press output region 36

Output 34 <-> Input 36, Output 35 <-> Input 34, Output 36 <-> Input 36



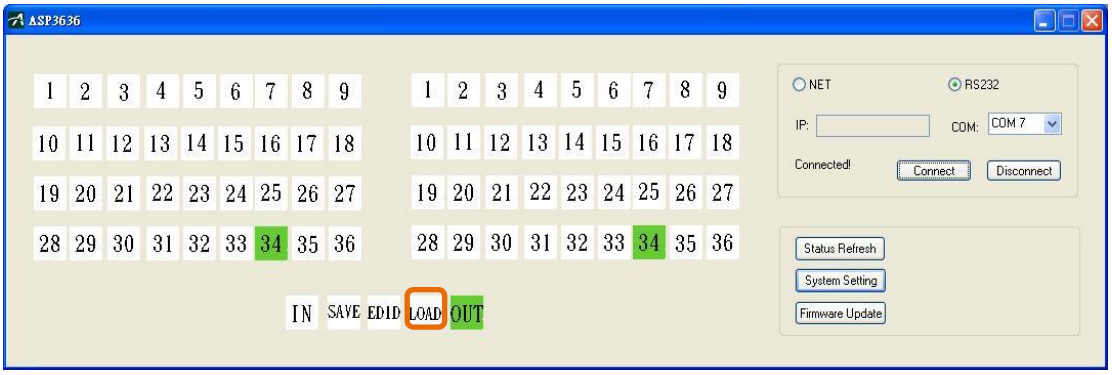

Step 7: Press input region 35.

Output 34 <-> Input 36, Output 35 <-> Input 34, Output 36 <-> Input 35



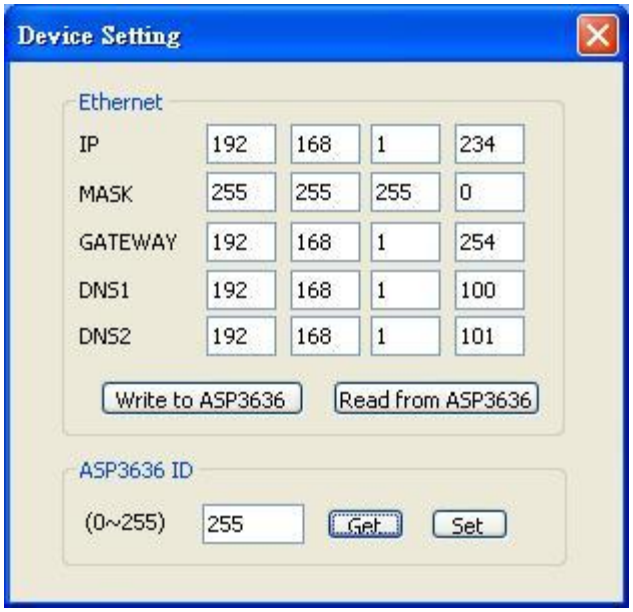

Step 7: Press Load button

Output 34 <-> Input 34, Output 35 <-> Input 36




#Set/get ethernet status & set/get ID

**At the RS232 connection mode



# HDMI 36x36 Matrix Command Control

## The Command Protocol Format (RS-232 Serial Port) (Ethernet Port)

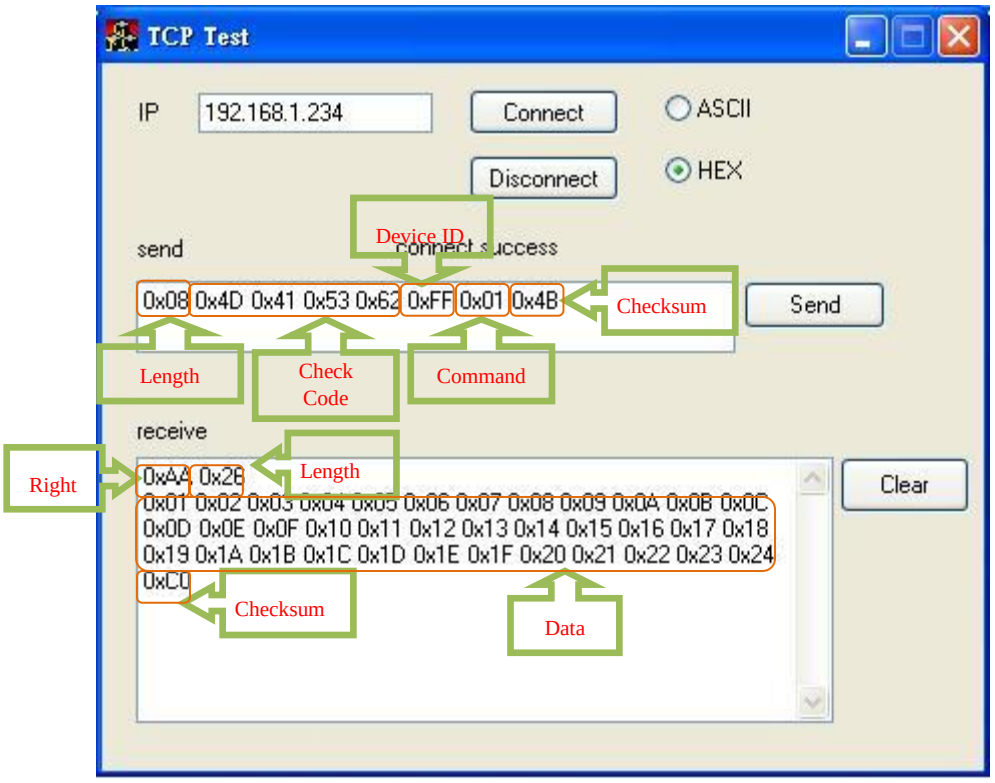
**Serial Port Setting:**

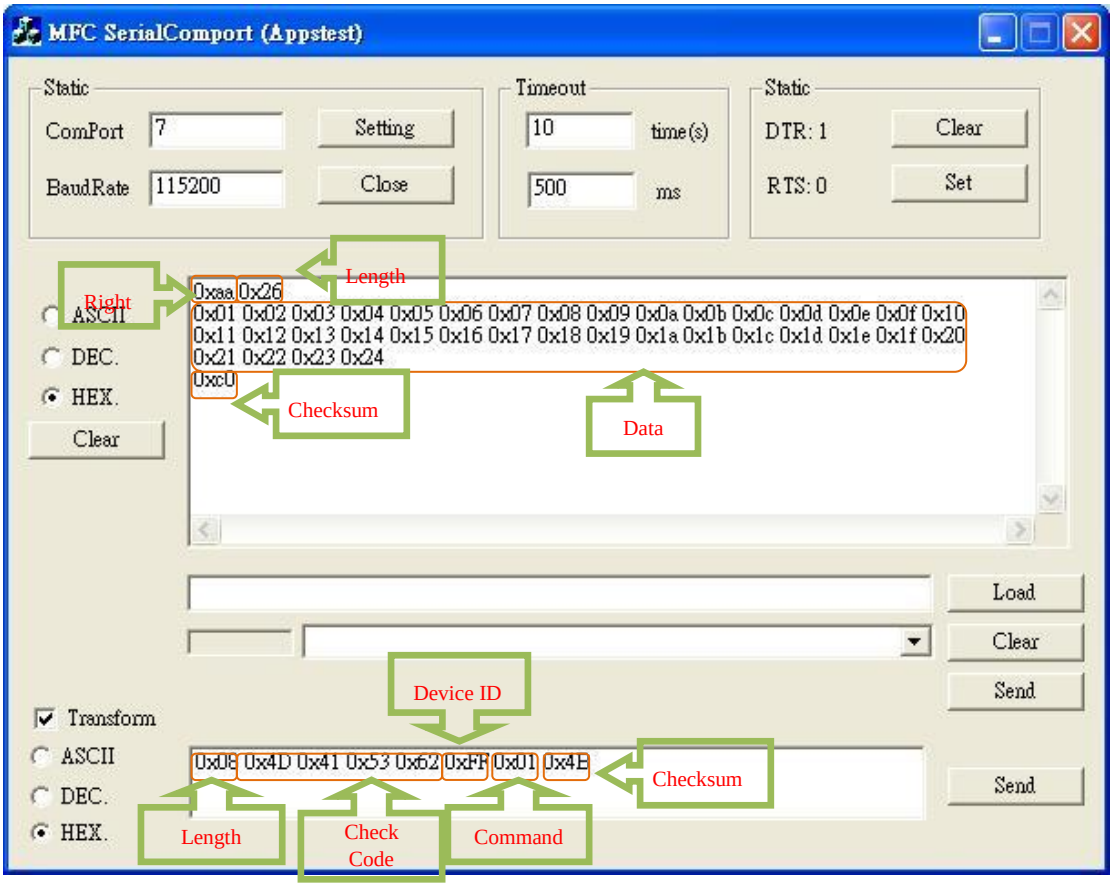
| | |
|---|---|
| Baud rate : | 115200 bps |
| Data bit : | 8 bits |
| Parity : | None |

**Ethernet Port Setting: Demo IP – 192.168.1.234**

| The Sample | | | |
|---|---|---|---|
| Function Description:<br>The command format and rules introduction. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | | |
| 1 | Check Code 1 | | |
| 2 | Check Code 2 | | |
| 3 | Check Code 3 | | |
| 4 | Check Code 4 | | |
| 5 | Device ID | | |
| 6 | Command ID | | |
| 7 | Command Parameter 1 | | |
| 8 | Command Parameter 2 | | |
| n-1 | Command Parameter m | | |
| n | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xaa/0x55 | ACK: 0xaa<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| 0 | Receive Length | | |
| 1 | Receive Parameter 1 | | |
| 2 | Receive Parameter 2 | | |
| 3 | Receive Parameter 3 | | |
| n-1 | Receive Parameter m | | |
| n | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |

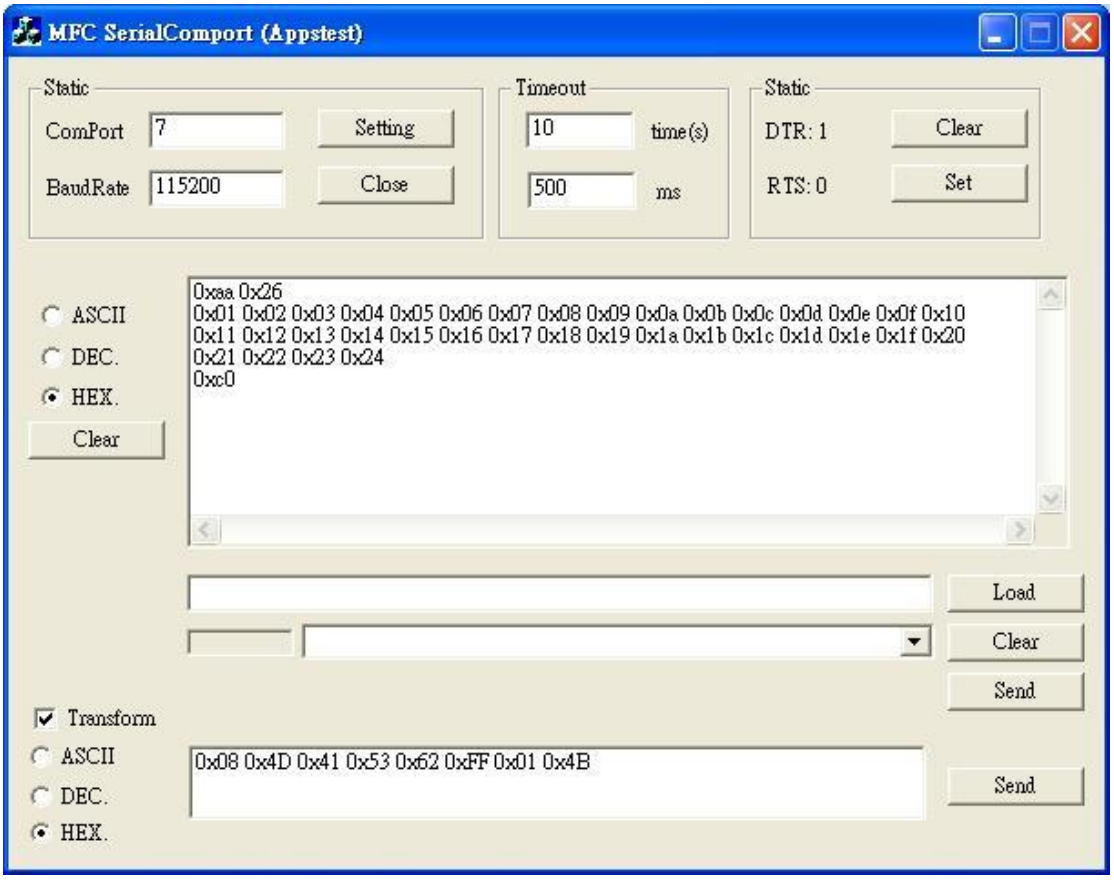
# Demonstration



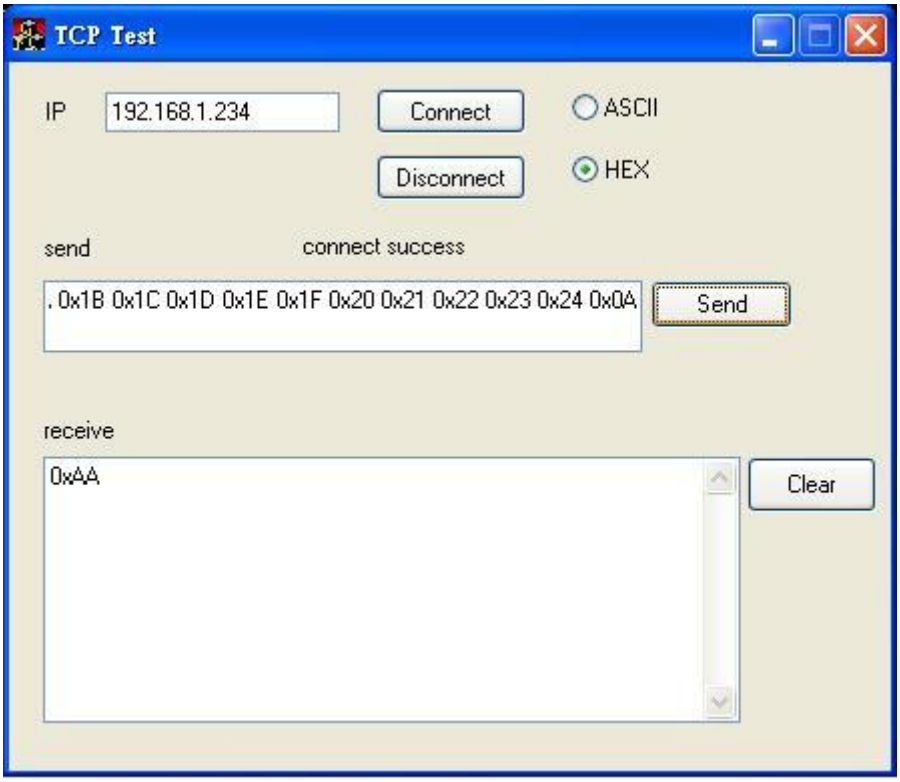



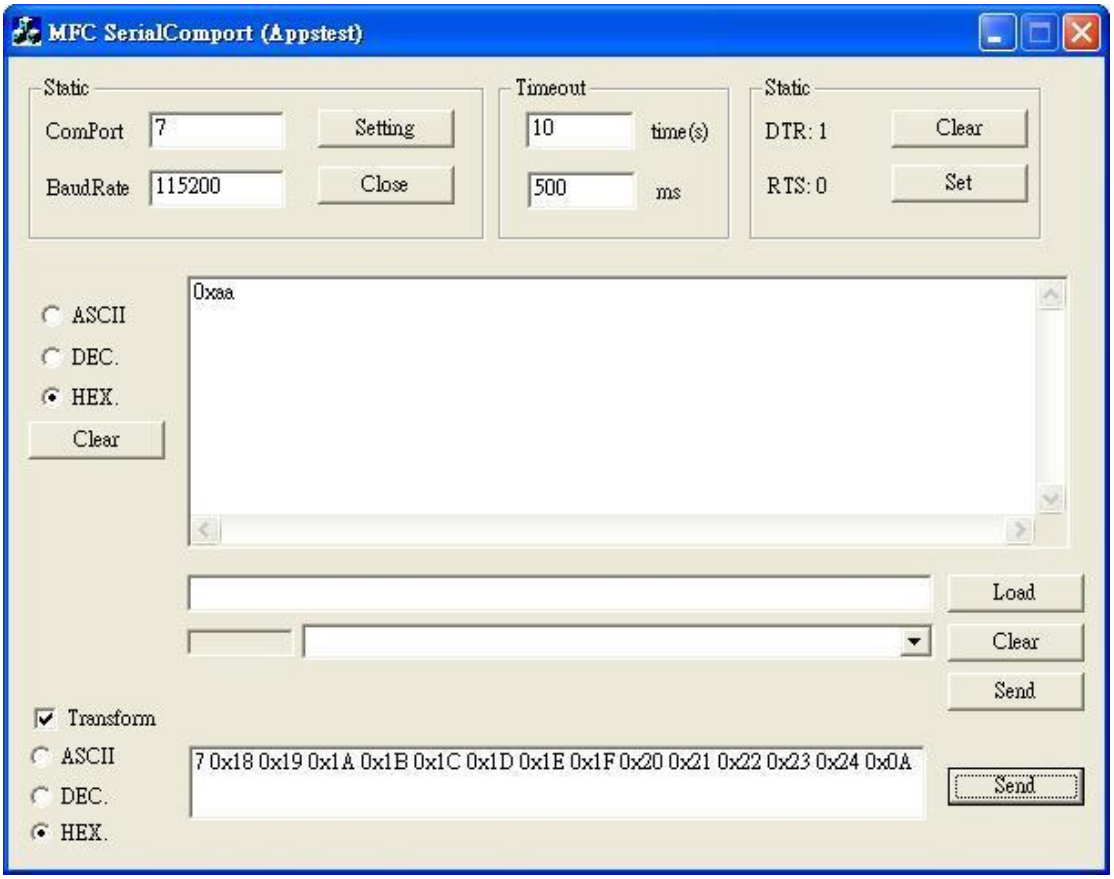
| Get Video Output Channel | | | |
|---|---|---|---|
| Function Description:<br>Get video output signal is from what input signal. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x08 | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x01 | |
| 7 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<7; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| 0 | Receive Length | 0x26 | |
| 1 | Receive Parameter 1 | A1 | Output channel “1” signal is from Input channel A1 |
| 2 | Receive Parameter 2 | A2 | Output channel “2” signal is from Input channel A2 |
| .<br>.<br>. | .<br>.<br>. | .<br>.<br>. | .<br>.<br>. |
| 36 | Receive Parameter 36 | A36 | Output channel “36” signal is from Input channel A36 |
| 37 | Check Sum | 0x26+ A1+ A2+...+ A36 | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x08 0x4D 0x41 0x53 0x62 0xFF 0x01 0x4B
Send
receive
0xAA 0x26
0x01 0x02 0x03 0x04 0x05 0x06 0x07 0x08 0x09 0x0A 0x0B 0x0C
0x0D 0x0E 0x0F 0x10 0x11 0x12 0x13 0x14 0x15 0x16 0x17 0x18
0x19 0x1A 0x1B 0x1C 0x1D 0x1E 0x1F 0x20 0x21 0x22 0x23 0x24
0xC0
Clear

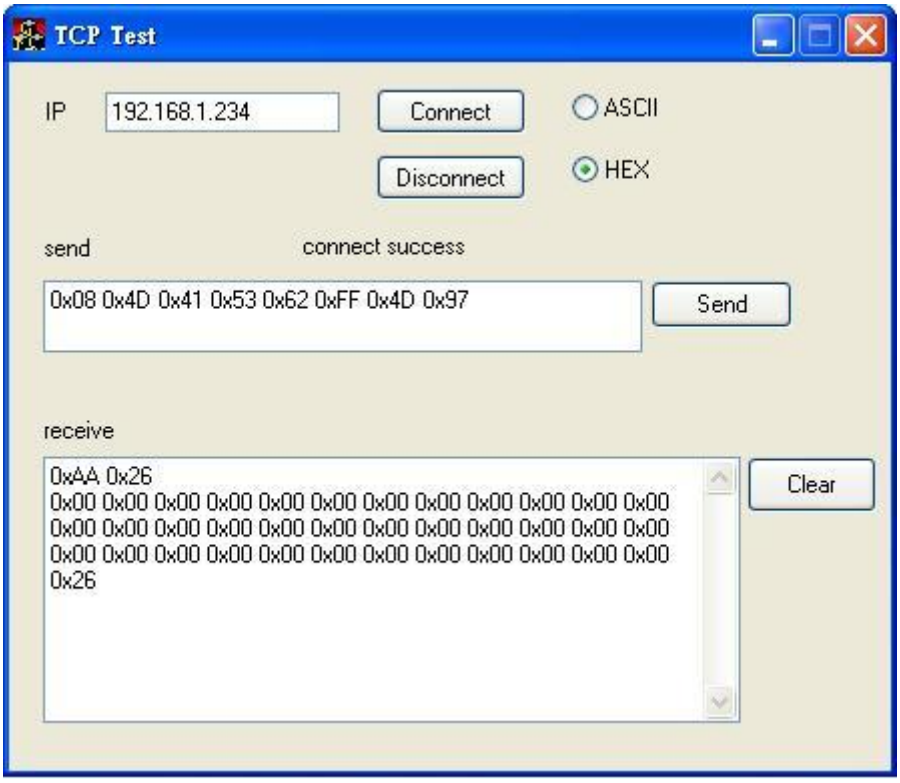

MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa 0x26
0x01 0x02 0x03 0x04 0x05 0x06 0x07 0x08 0x09 0x0a 0x0b 0x0c 0x0d 0x0e 0x0f 0x10
0x11 0x12 0x13 0x14 0x15 0x16 0x17 0x18 0x19 0x1a 0x1b 0x1c 0x1d 0x1e 0x1f 0x20
0x21 0x22 0x23 0x24
0xc0
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x08 0x4D 0x41 0x53 0x62 0xFF 0x01 0x4B
Send

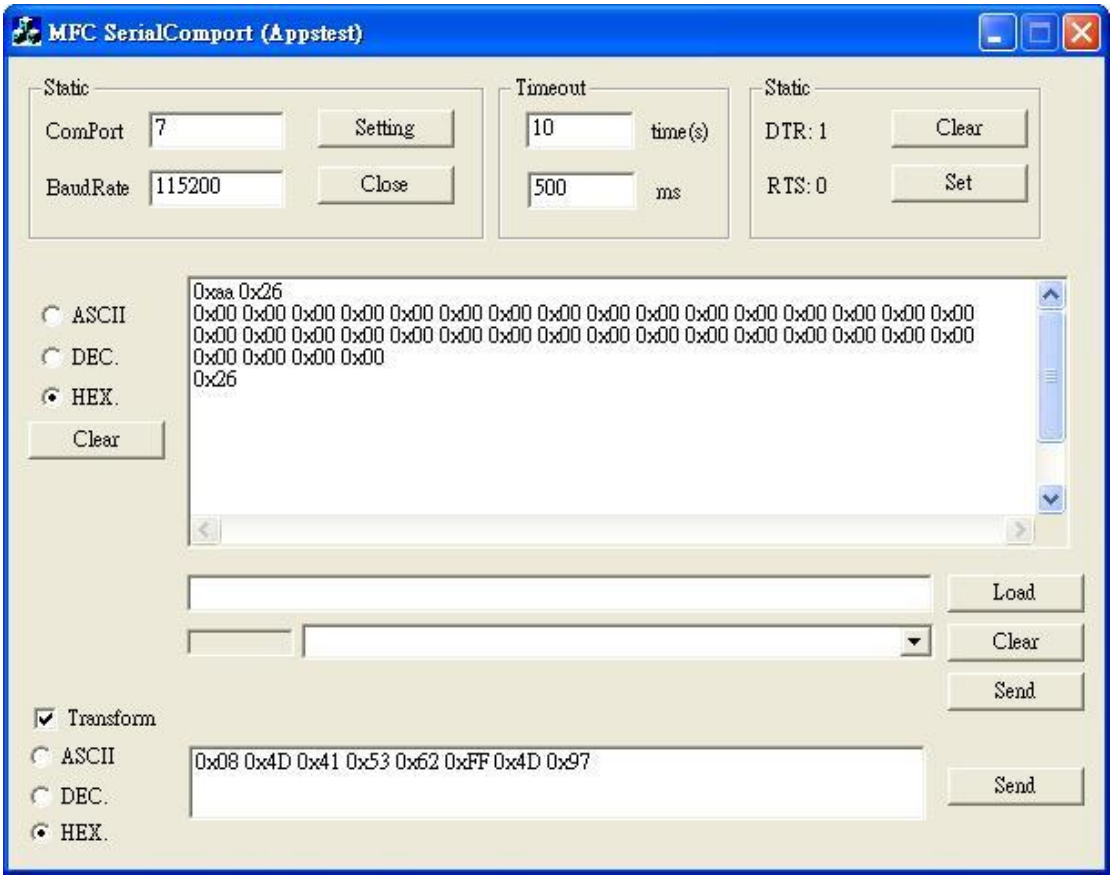
| Set Video Output Channel | | | |
|---|---|---|---|
| Function Description:<br>Set video output signal is from what input signal. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x2C | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x02 | |
| 7 | Command Parameter 1 | A1 | Set output channel “1” signal is from Input channel A1 |
| 8 | Command Parameter 2 | A2 | Set output channel “2” signal is from Input channel A2 |
| .<br>.<br>. | .<br>.<br>. | .<br>.<br>. | .<br>.<br>. |
| 42 | Command Parameter 36 | A36 | Set output channel “36” signal is from Input channel A36 |
| 43 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| No Receive | | | |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
, 0x1B 0x1C 0x1D 0x1E 0x1F 0x20 0x21 0x22 0x23 0x24 0x0A
Send
receive
0xAA
Clear


MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
7 0x18 0x19 0x1A 0x1B 0x1C 0x1D 0x1E 0x1F 0x20 0x21 0x22 0x23 0x24 0x0A
Send

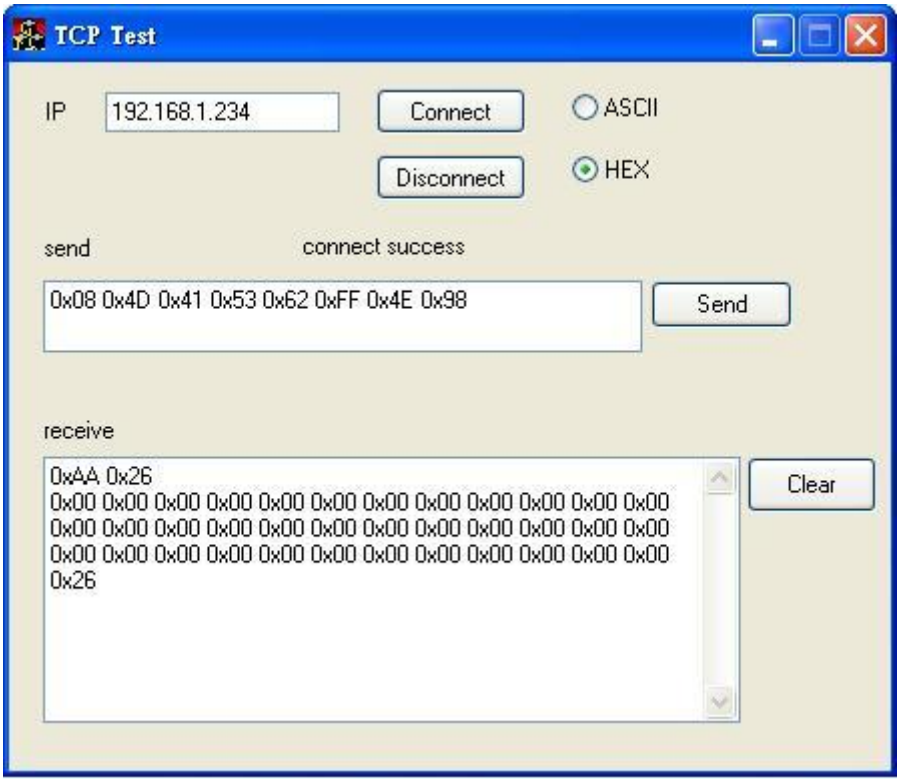
| Check Video Input Signal | | | |
|---|---|---|---|
| Function Description:<br>Check each video input has signal or not. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x08 | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x4D | |
| 7 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| 0 | Receive Length | 0x26 | |
| 1 | Receive Parameter 1 | (0x00 \|\| 0x01) | 0x01: Signal input channel “1”<br>0x00: No signal input |
| 2 | Receive Parameter 2 | (0x00 \|\| 0x01) | 0x01: Signal input channel “2”<br>0x00: No signal input |
| .<br>.<br>. | .<br>.<br>. | .<br>.<br>. | .<br>.<br>. |
| 36 | Receive Parameter 36 | (0x00 \|\| 0x01) | 0x01: Signal input channel “36”<br>0x00: No signal input |
| 37 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |

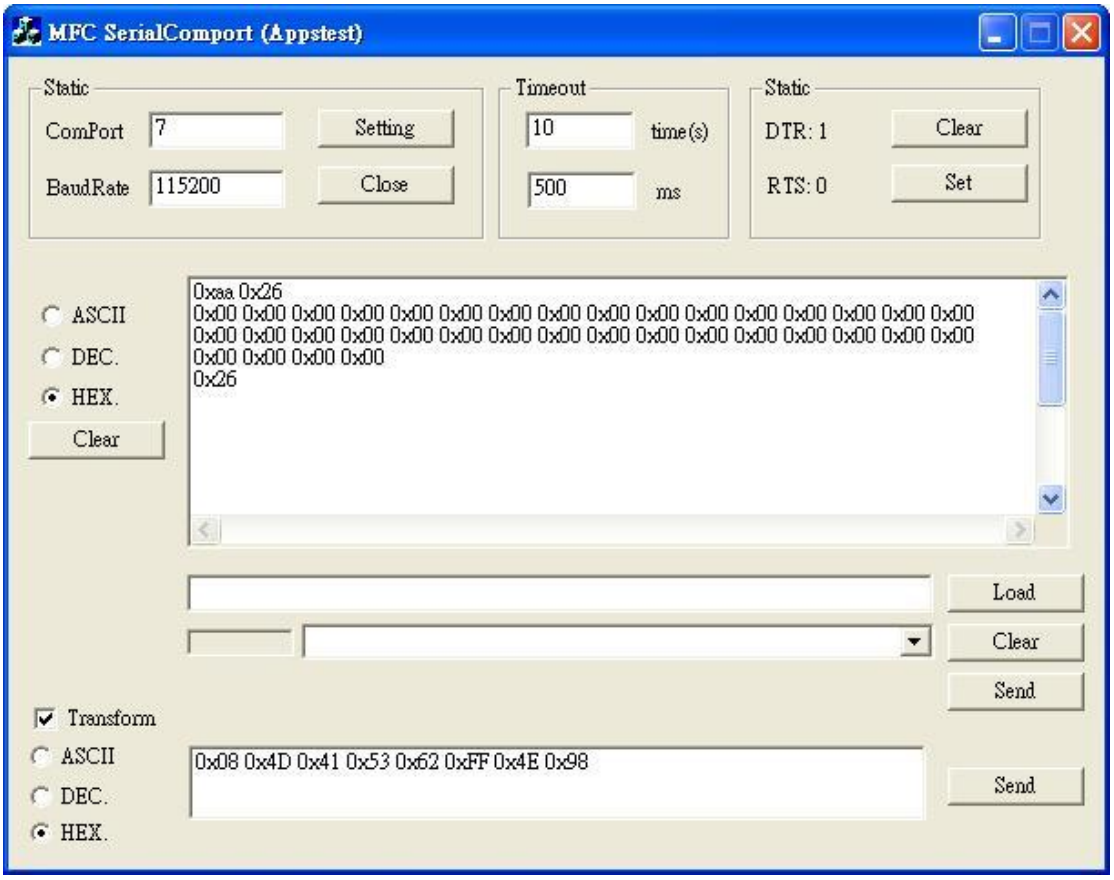

TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x08 0x4D 0x41 0x53 0x62 0xFF 0x4D 0x97
Send
receive
0xAA 0x26
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x26
Clear


MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa 0x26
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00
0x26
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x08 0x4D 0x41 0x53 0x62 0xFF 0x4D 0x97
Send

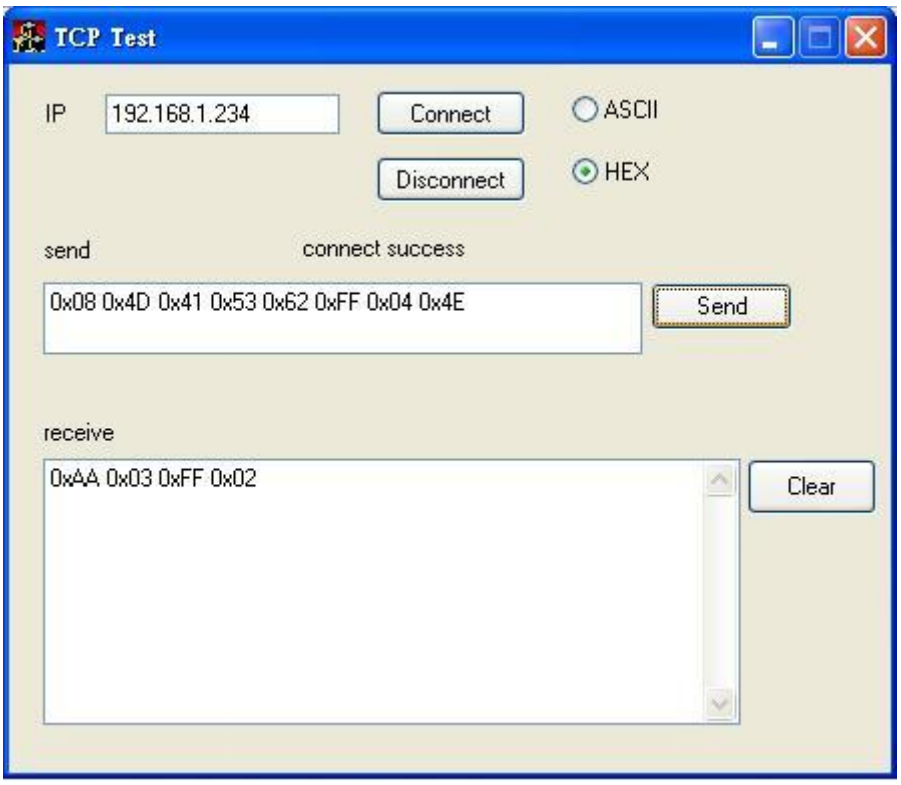
| Check Video Ouput Link | | | |
|---|---|---|---|
| Function Description:<br>Check each video output link display or not. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x08 | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x4E | |
| 7 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| 0 | Receive Length | 0x26 | |
| 1 | Receive Parameter 1 | (0x00 \|\| 0x01) | 0x01: Output channel “1” link<br>0x00: No link display |
| 2 | Receive Parameter 2 | (0x00 \|\| 0x01) | 0x01: Output channel “2” link<br>0x00: No link display |
| .<br>.<br>. | .<br>.<br>. | .<br>.<br>. | .<br>.<br>. |
| 36 | Receive Parameter 36 | (0x00 \|\| 0x01) | 0x01: Output channel “36” link<br>0x00: No link display |
| 37 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |

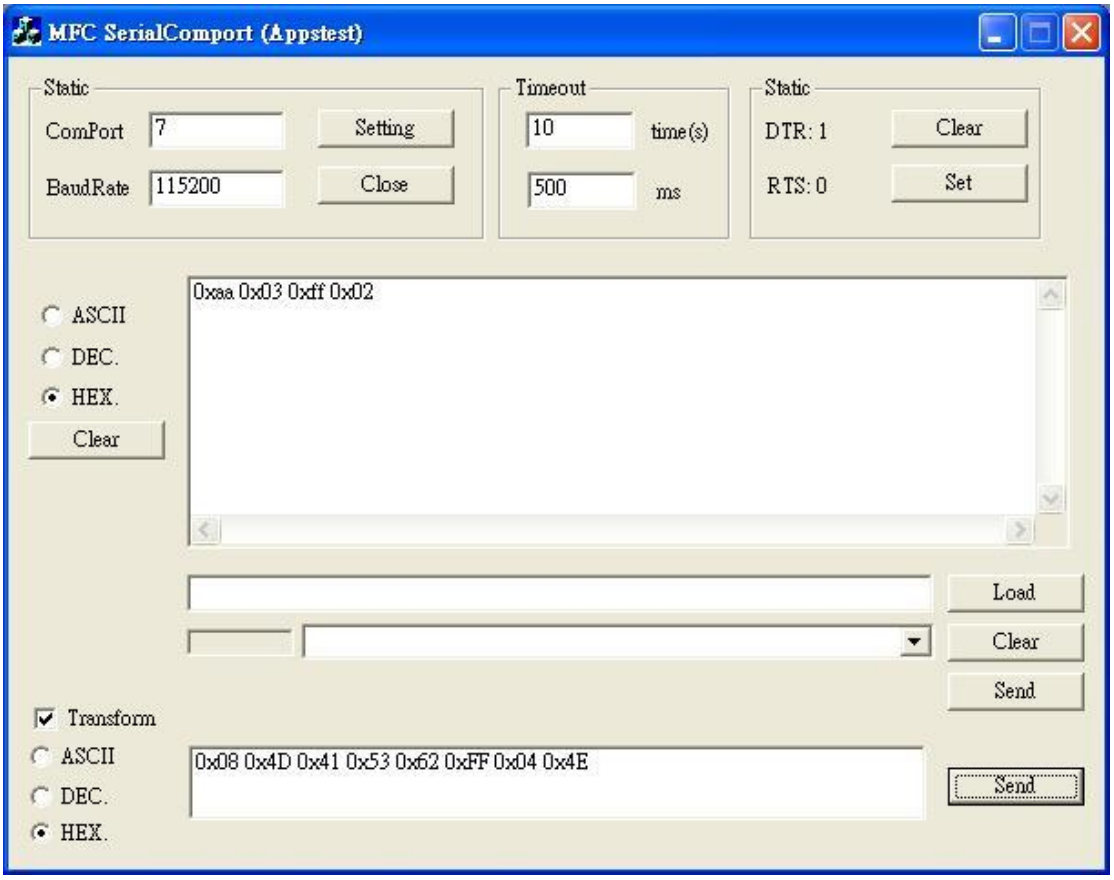
This command will take several times.



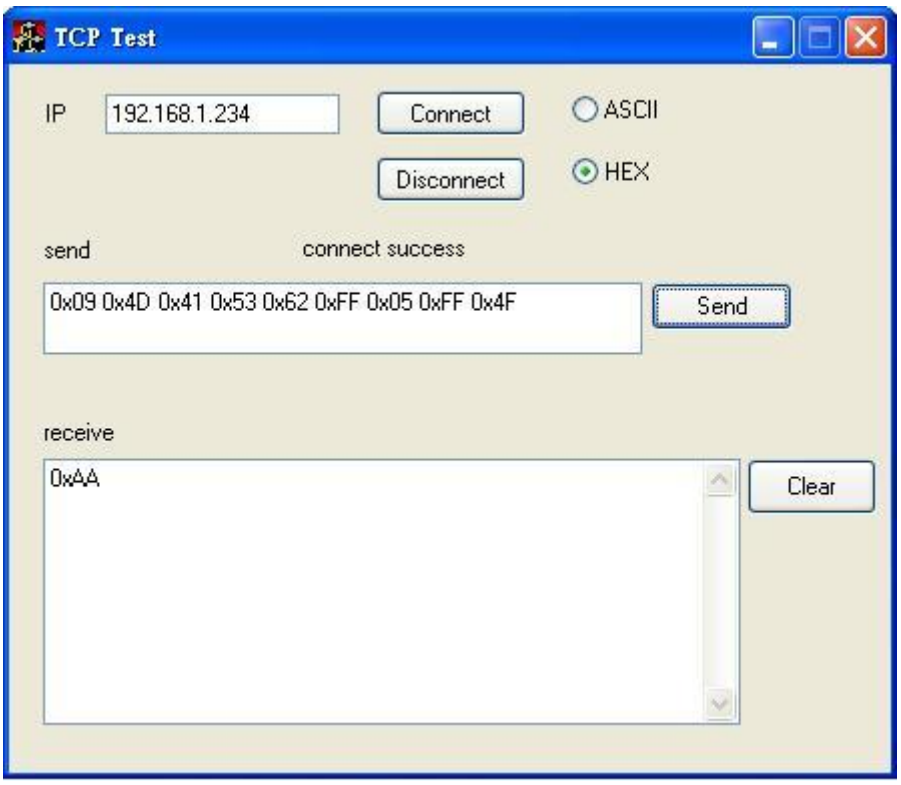



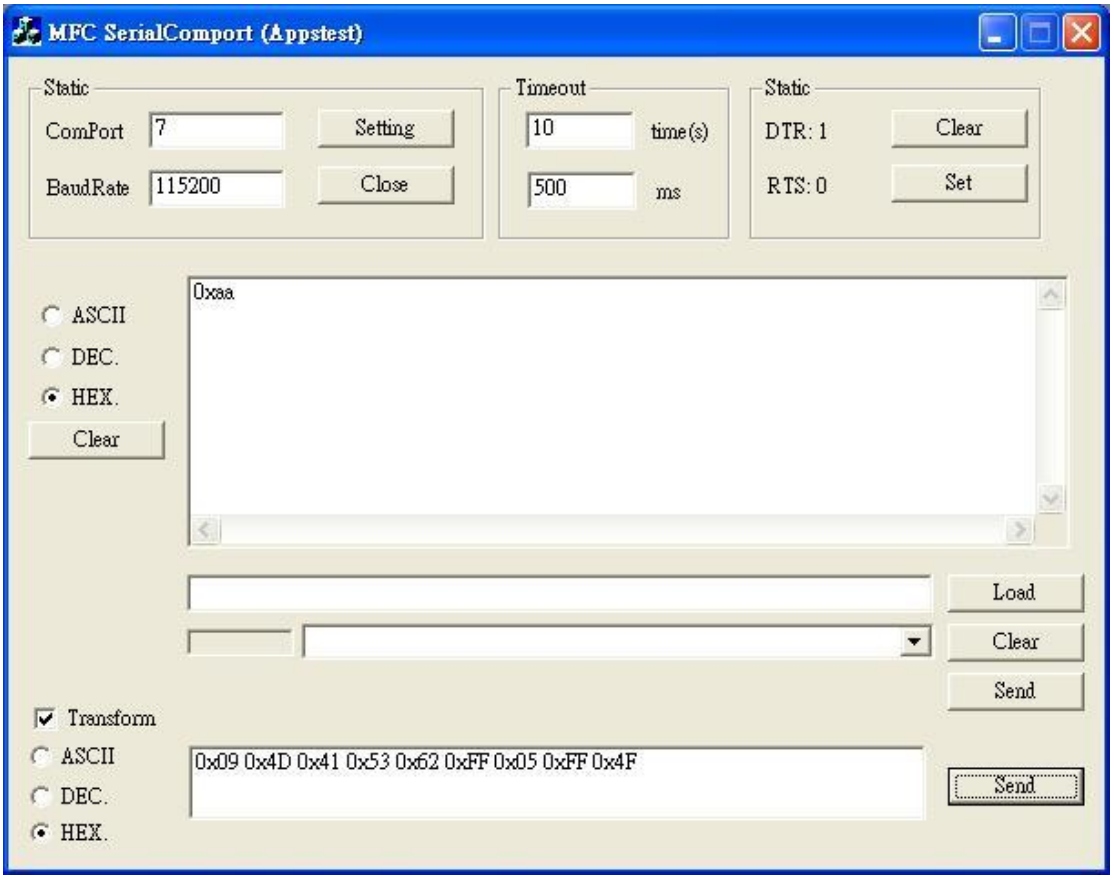
| Get Device ID | | | |
|---|---|---|---|
| Function Description:<br>Get Device ID | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x08 | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | 0xFF | |
| 6 | Command ID | 0x04 | |
| 7 | Check Sum | 0x4E | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| 0 | Receive Length | 0x03 | |
| 1 | Receive Parameter 1 | A1 | Device ID is A1 |
| 2 | Check Sum | 0x03+ A1 | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x08 0x4D 0x41 0x53 0x62 0xFF 0x04 0x4E
Send
receive
0xAA 0x03 0xFF 0x02
Clear

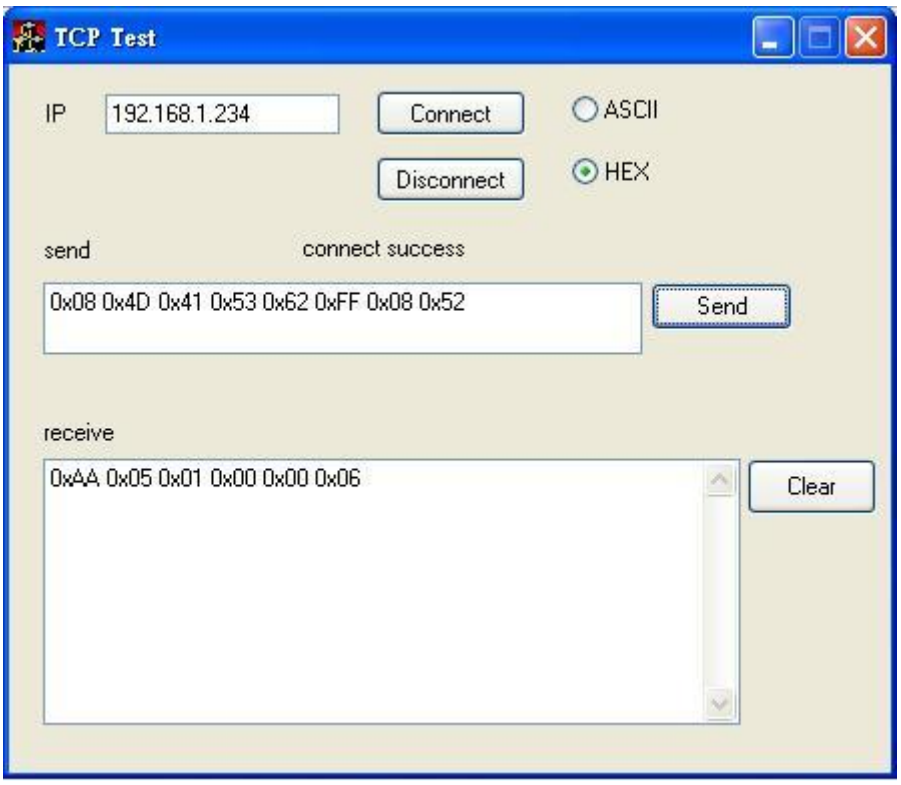

MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa 0x03 0xff 0x02
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x08 0x4D 0x41 0x53 0x62 0xFF 0x04 0x4E
Send

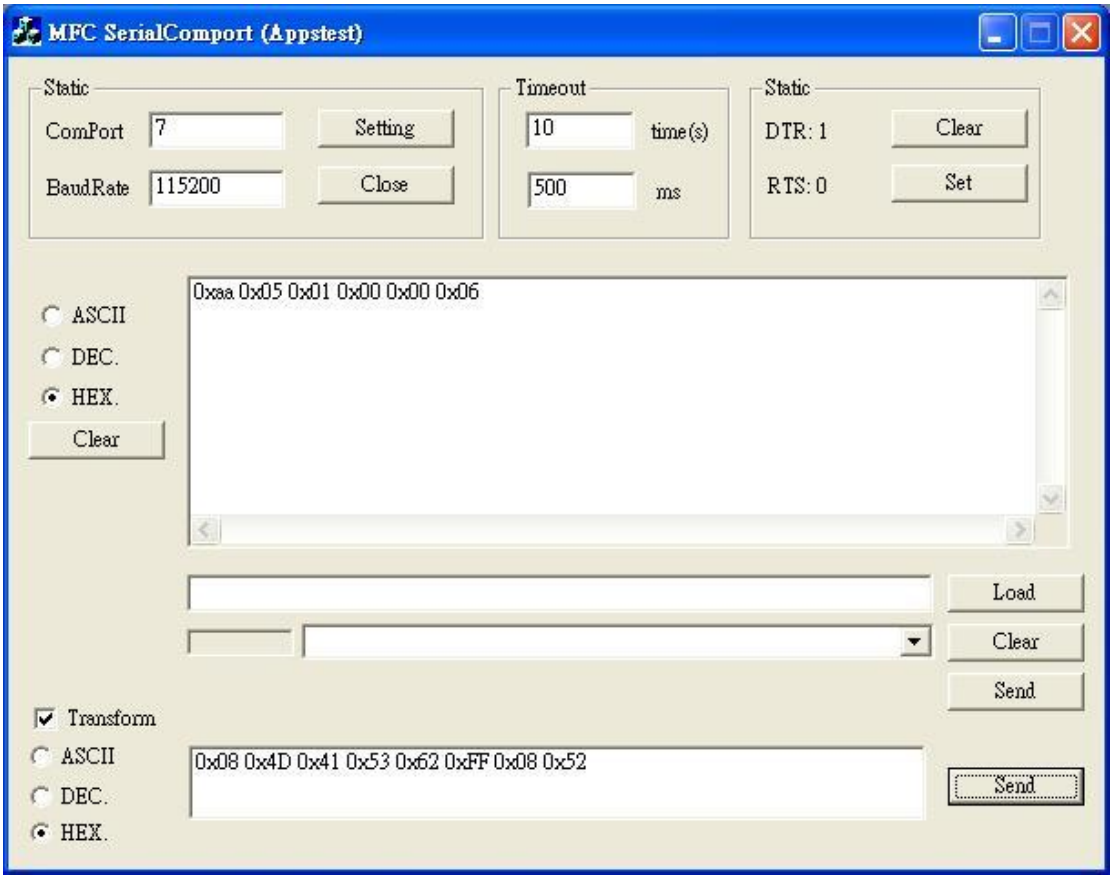
| Set Device ID | | | |
|---|---|---|---|
| Function Description:<br>Set Device ID | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x09 | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | 0xFF | |
| 6 | Command ID | 0x05 | |
| 7 | Command Parameter 1 | A1 | Set Device ID to A1 |
| 8 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| No Receive | | | |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x09 0x4D 0x41 0x53 0x62 0xFF 0x05 0xFF 0x4F
Send
receive
0xAA
Clear

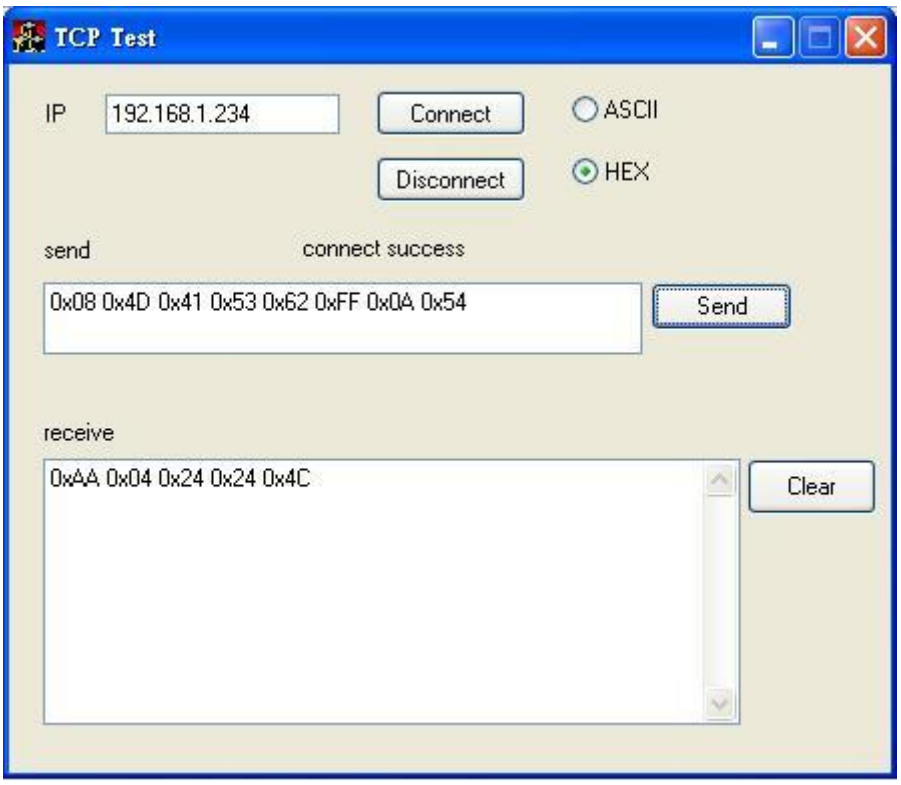

MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x09 0x4D 0x41 0x53 0x62 0xFF 0x05 0xFF 0x4F
Send

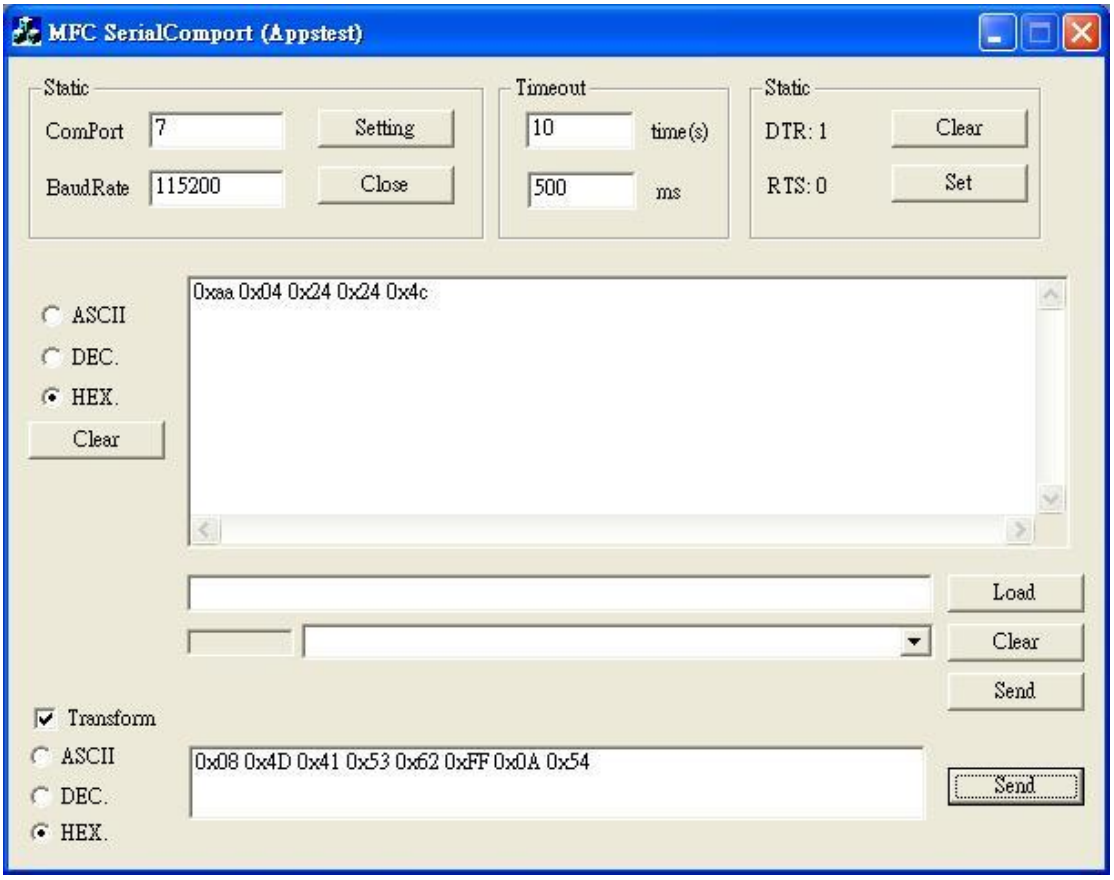
| Get Firmware Version | | | |
|---|---|---|---|
| Function Description:<br>Get Firmware Version charater. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x08 | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x08 | |
| 7 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| 0 | Receive Length | 0x05 | |
| 1 | Receive Parameter 1 | A1 | ASCII Data for Describe Firmware Version |
| 2 | Receive Parameter 2 | A2 | |
| 3 | Receive Parameter 3 | A3 | |
| 4 | Check Sum | 0x05+ A1+ A2+ A3 | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x08 0x4D 0x41 0x53 0x62 0xFF 0x08 0x52
Send
receive
0xAA 0x05 0x01 0x00 0x00 0x06
Clear

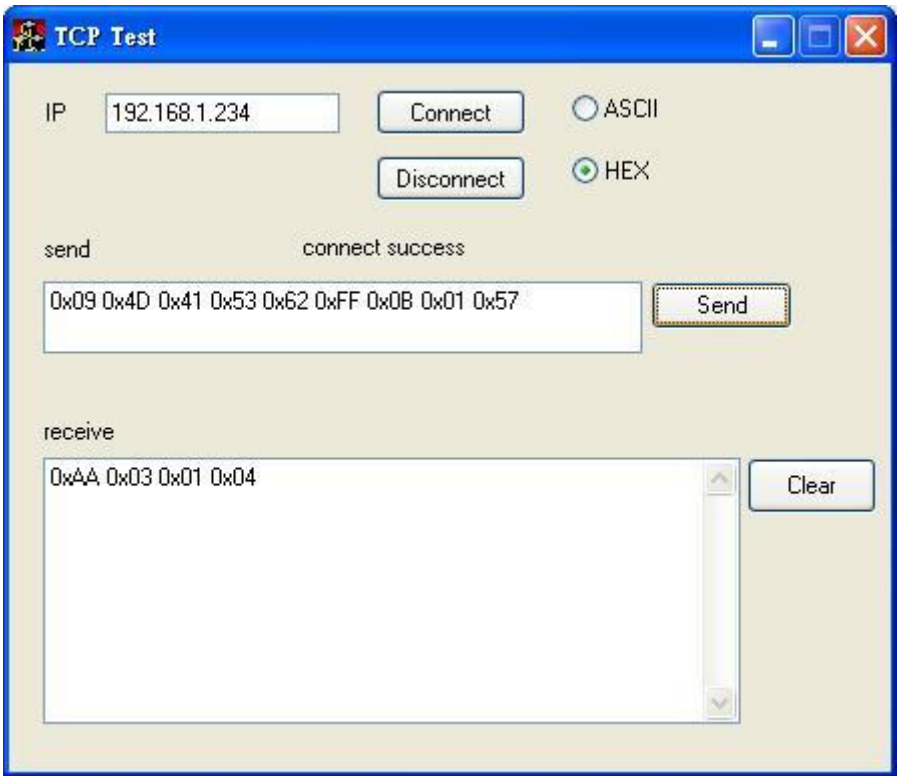

MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa 0x05 0x01 0x00 0x00 0x06
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x08 0x4D 0x41 0x53 0x62 0xFF 0x08 0x52
Send

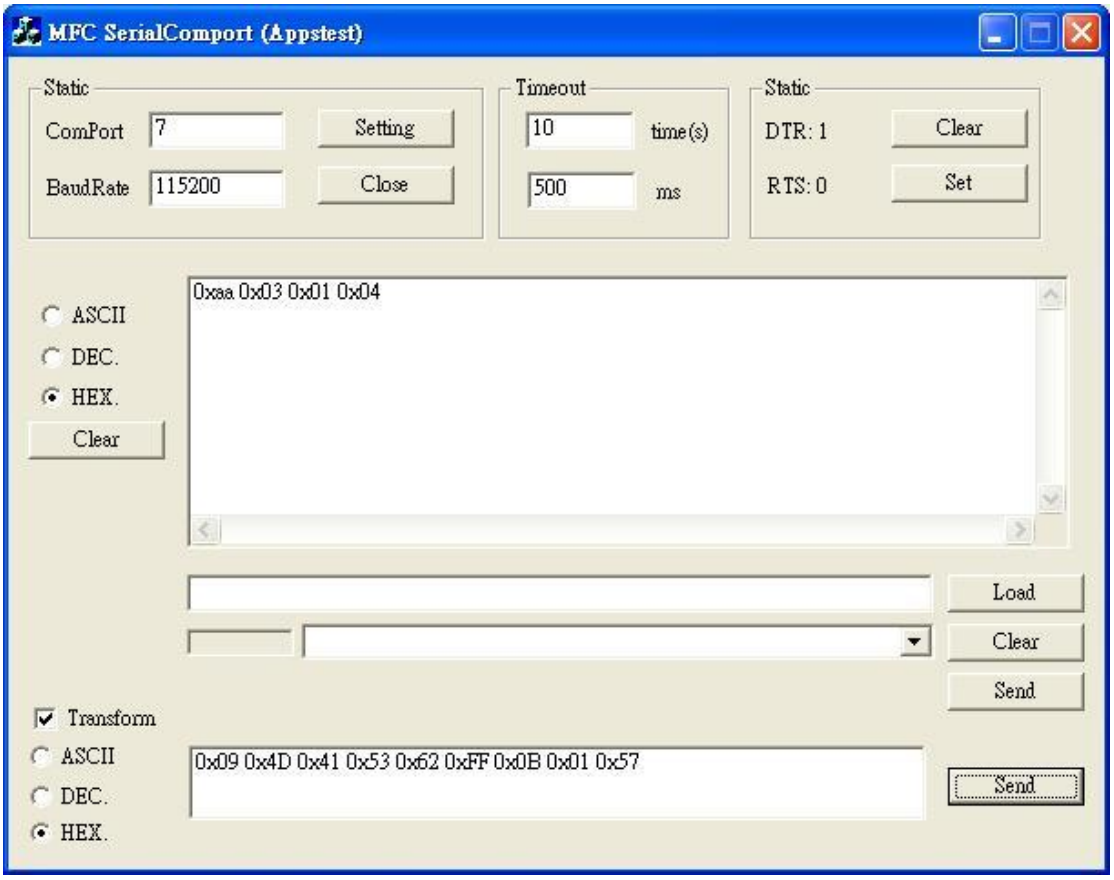
| Get Input & Output Channel | | | |
|---|---|---|---|
| Function Description:<br>Get input and output channel number information. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x08 | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x0A | |
| 7 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| 0 | Receive Length | 0x04 | |
| 1 | Receive Parameter 1 | A1 | Video Input Number A1 |
| 2 | Receive Parameter 2 | A2 | Video Output Number A2 |
| 3 | Check Sum | 0x04+A1+A2 | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x08 0x4D 0x41 0x53 0x62 0xFF 0x0A 0x54
Send
receive
0xAA 0x04 0x24 0x24 0x4C
Clear

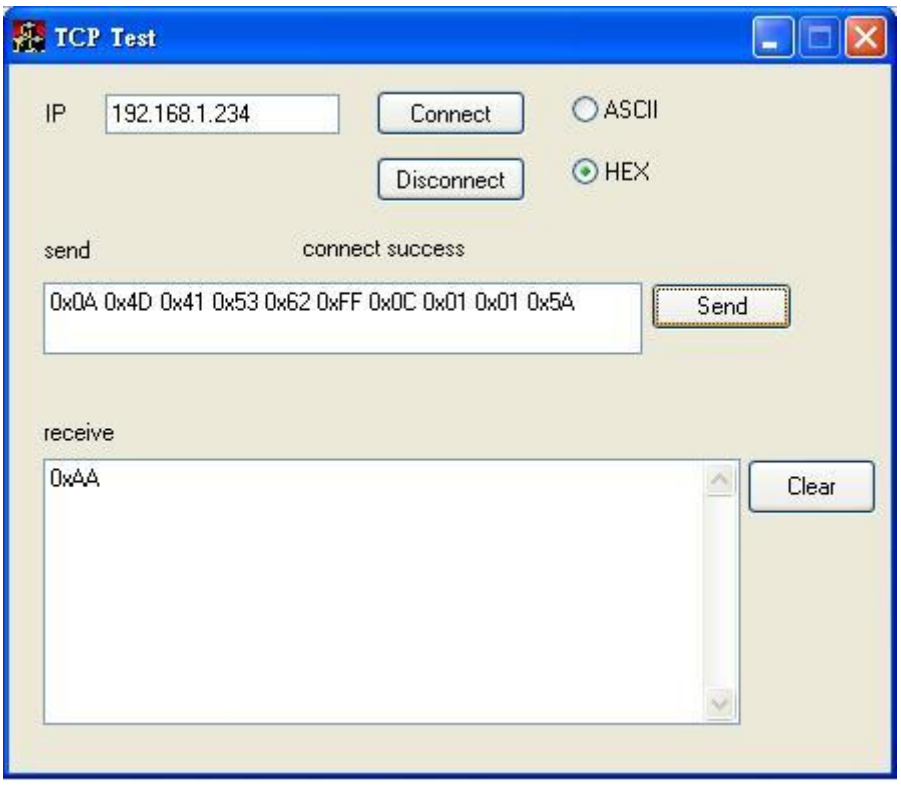

MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa 0x04 0x24 0x24 0x4c
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x08 0x4D 0x41 0x53 0x62 0xFF 0x0A 0x54
Send

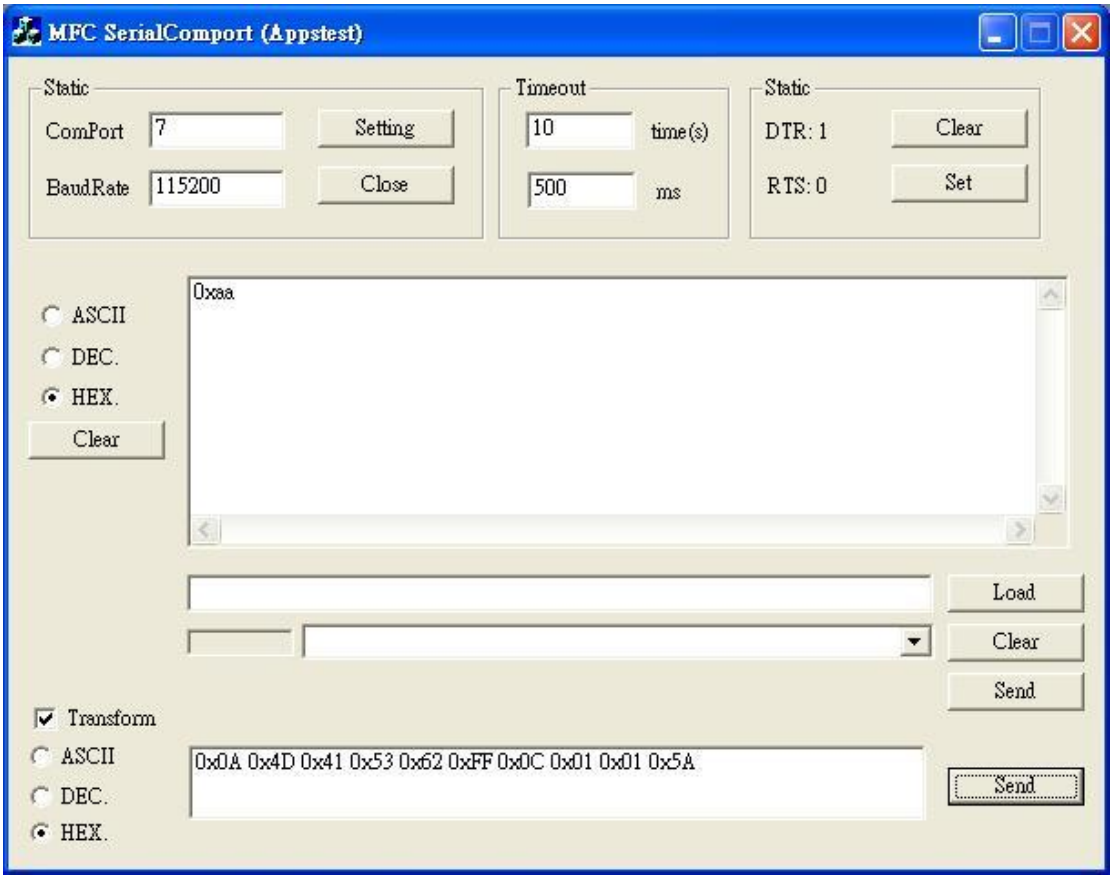
| Get Single Video Output Channel | | | |
|---|---|---|---|
| Function Description:<br>Get Single video output signal is from what input signal. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x09 | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x0B | |
| 7 | Command Parameter 1 | A1 | The Output Channel A1 |
| 8 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| 0 | Receive Length | 0x03 | |
| 1 | Receive Parameter 1 | A1 | Video Input Number A1 |
| 2 | Check Sum | 0x03+A1 | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x09 0x4D 0x41 0x53 0x62 0xFF 0x0B 0x01 0x57
Send
receive
0xAA 0x03 0x01 0x04
Clear

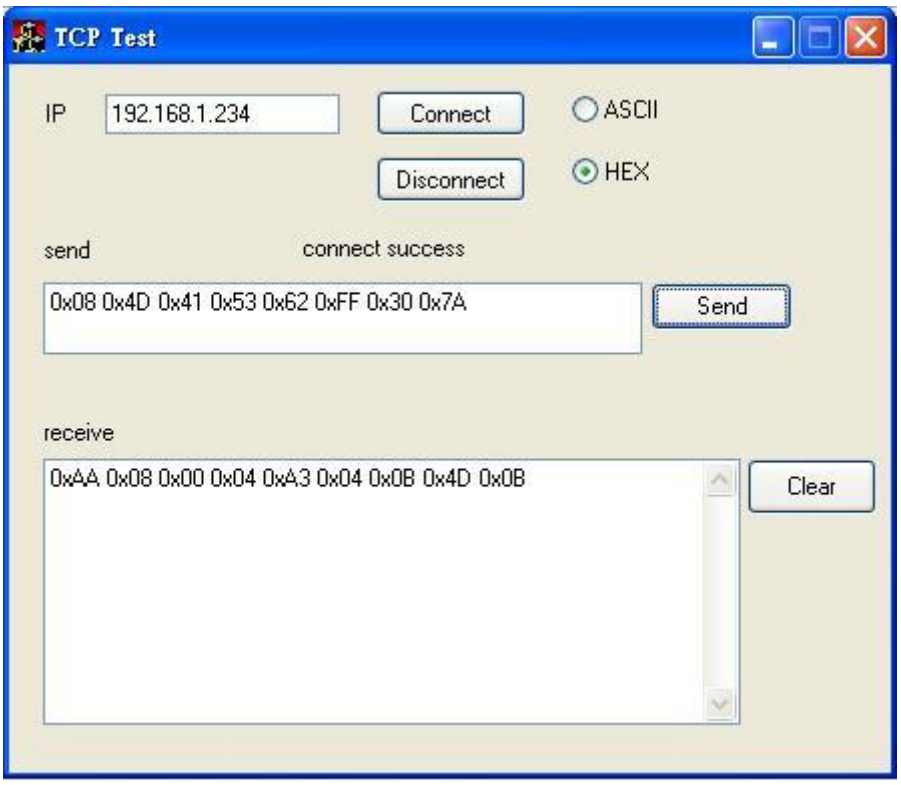

MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa 0x03 0x01 0x04
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x09 0x4D 0x41 0x53 0x62 0xFF 0x0B 0x01 0x57
Send

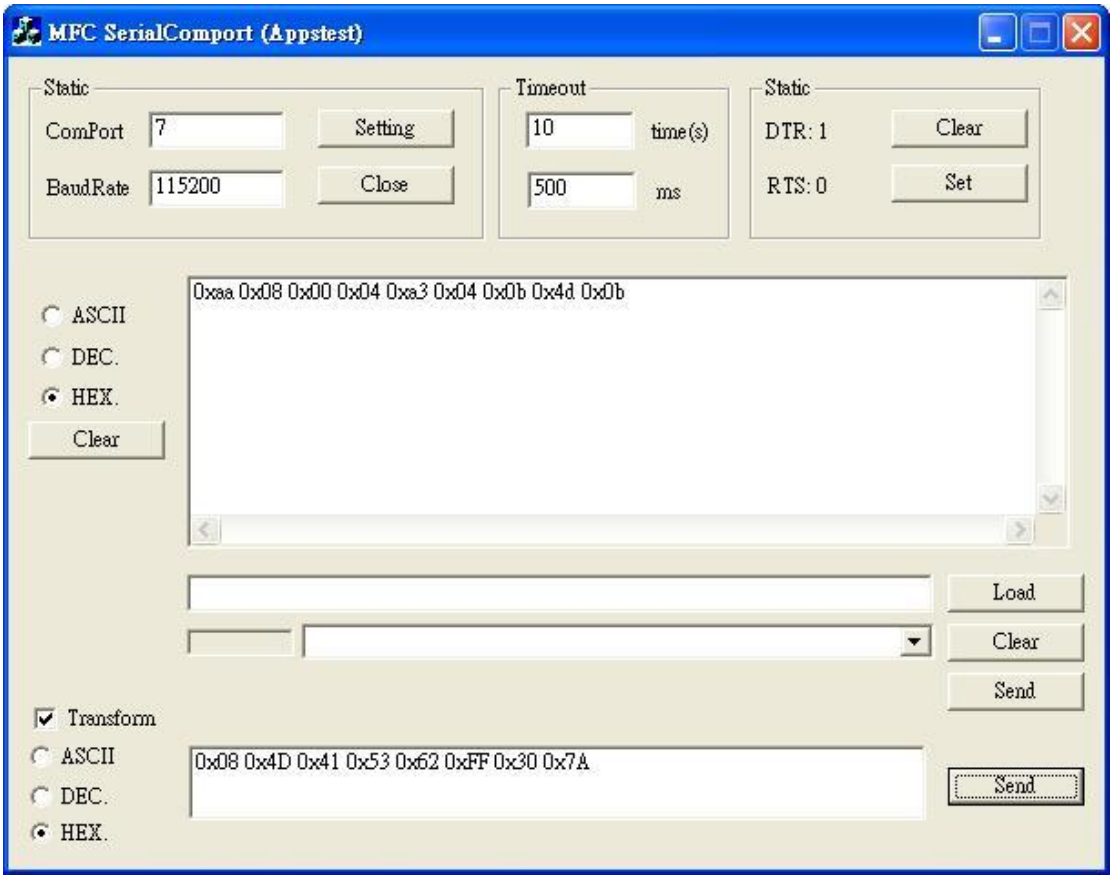
| Set Single Video Output Channel | | | |
|---|---|---|---|
| Function Description:<br>Set Single video output signal is from what input signal. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x0A | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x0C | |
| 7 | Command Parameter 1 | A1 | The Output Channel A1 |
| 8 | Command Parameter 2 | A2 | The Input Channel A2 |
| 9 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| No Receive | | | |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x0A 0x4D 0x41 0x53 0x62 0xFF 0x0C 0x01 0x01 0x5A
Send
receive
0xAA
Clear

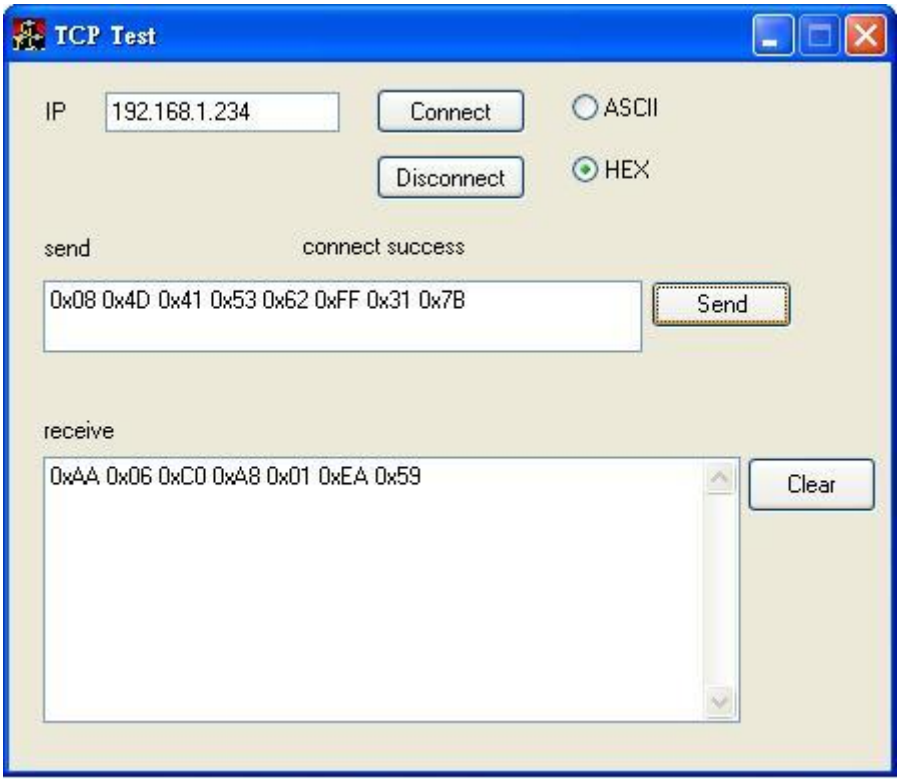

MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x0A 0x4D 0x41 0x53 0x62 0xFF 0x0C 0x01 0x01 0x5A
Send

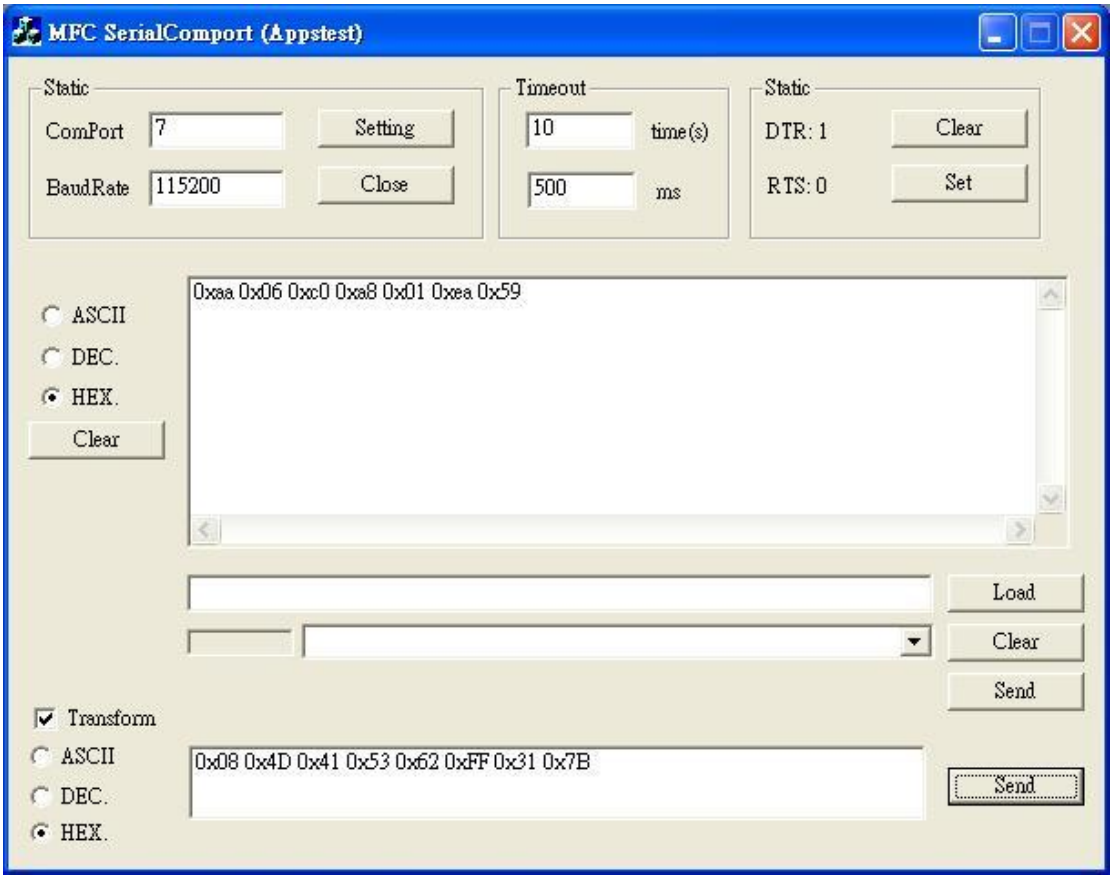
| Get Machine MAC Address | | | |
|---|---|---|---|
| Function Description:<br>Get Ethernet MAC address. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x08 | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x30 | |
| 7 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| 0 | Receive Length | 0x08 | |
| 1 | Receive Parameter 1 | A1 | MAC Address 1 A1 |
| 2 | Receive Parameter 2 | A2 | MAC Address 2 A2 |
| 3 | Receive Parameter 3 | A3 | MAC Address 3 A3 |
| 4 | Receive Parameter 4 | A4 | MAC Address 4 A4 |
| 5 | Receive Parameter 5 | A5 | MAC Address 5 A5 |
| 6 | Receive Parameter 6 | A6 | MAC Address 6 A6 |
| 7 | Check Sum | 0x08+A1+A2+<br>A3+ A4+ A5+<br>A6 | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x08 0x4D 0x41 0x53 0x62 0xFF 0x30 0x7A
Send
receive
0xAA 0x08 0x00 0x04 0xA3 0x04 0x0B 0x4D 0x0B
Clear

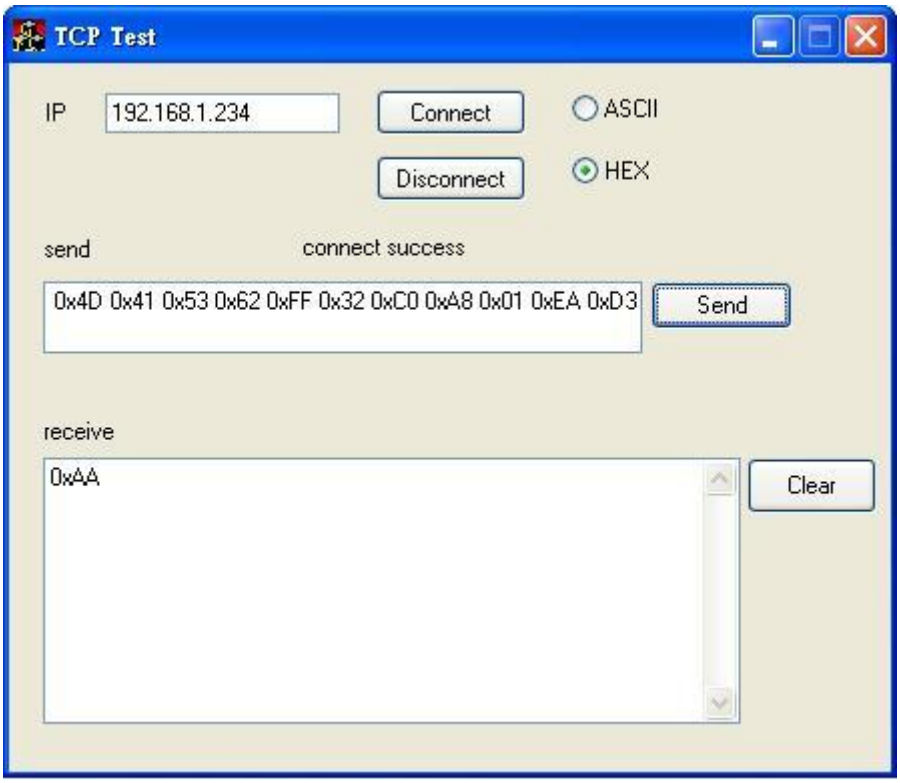

MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa 0x08 0x00 0x04 0xa3 0x04 0x0b 0x4d 0x0b
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x08 0x4D 0x41 0x53 0x62 0xFF 0x30 0x7A
Send

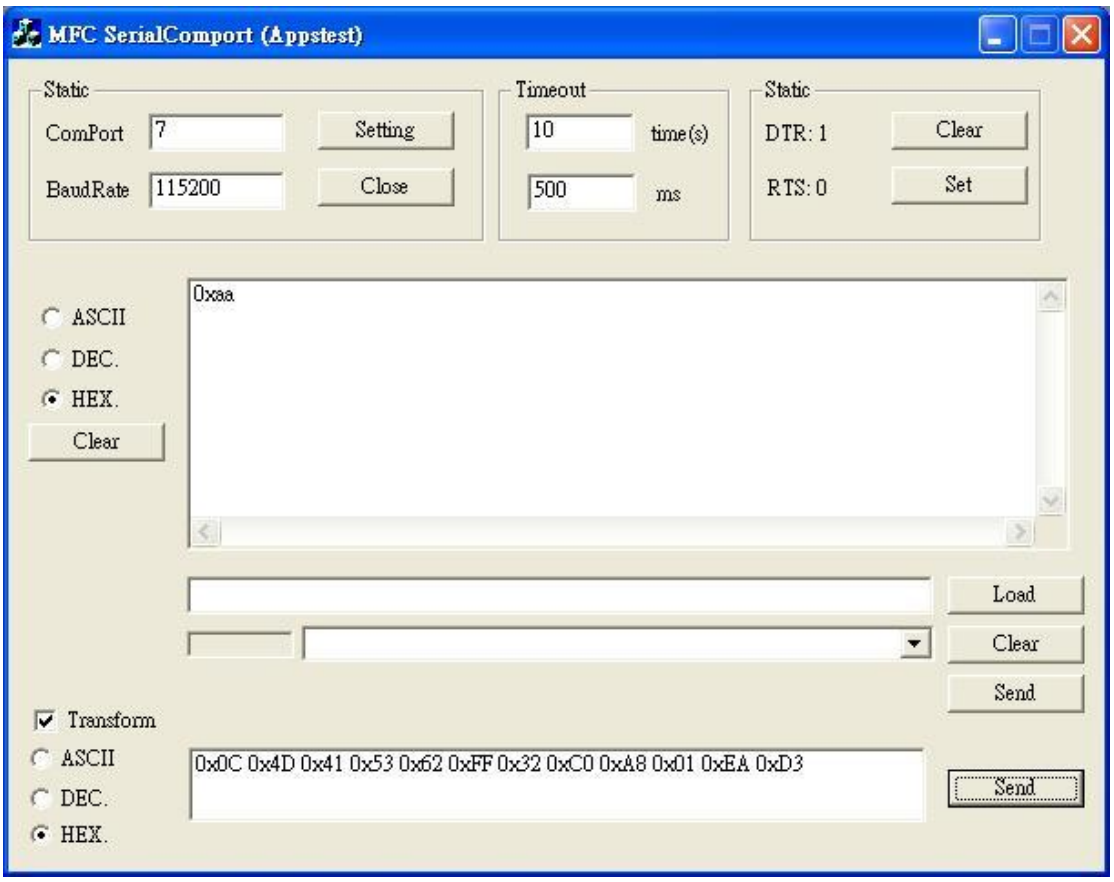
| Get IP Address | | | |
|---|---|---|---|
| Function Description:<br>Get Ethernet IP address. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x08 | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x31 | |
| 7 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| 0 | Receive Length | 0x06 | |
| 1 | Receive Parameter 1 | A1 | IP Address 1 A1 |
| 2 | Receive Parameter 2 | A2 | IP Address 2 A2 |
| 3 | Receive Parameter 3 | A3 | IP Address 3 A3 |
| 4 | Receive Parameter 4 | A4 | IP Address 4 A4 |
| 7 | Check Sum | 0x06+A1+A2+ A3+ A4 | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x08 0x4D 0x41 0x53 0x62 0xFF 0x31 0x7B
Send
receive
0xAA 0x06 0xC0 0xA8 0x01 0xEA 0x59
Clear


MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa 0x06 0xc0 0xa8 0x01 0xea 0x59
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x08 0x4D 0x41 0x53 0x62 0xFF 0x31 0x7B
Send

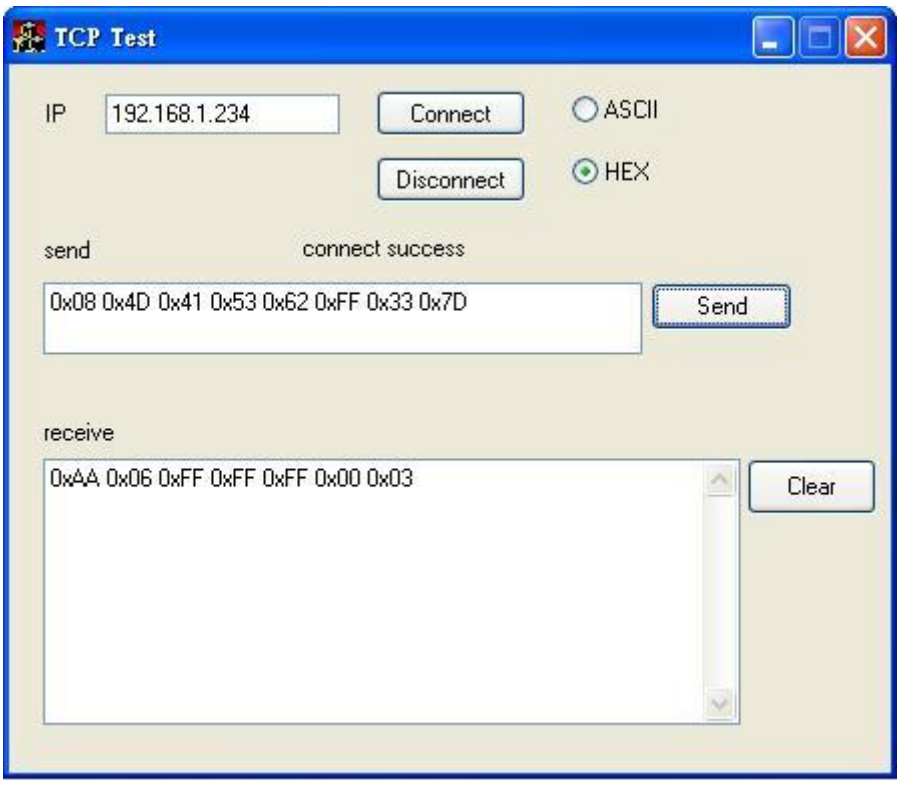
| Set IP Address | | | |
|---|---|---|---|
| Function Description:<br>Set ethernet IP Address. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x0C | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x32 | |
| 7 | Command Parameter 1 | A1 | Set IP Address 1 A1 |
| 8 | Command Parameter 2 | A2 | Set IP Address 2 A2 |
| 9 | Command Parameter 3 | A3 | Set IP Address 3 A3 |
| 10 | Command Parameter 4 | A4 | Set IP Address 4 A4 |
| 11 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| No Receive | | | |

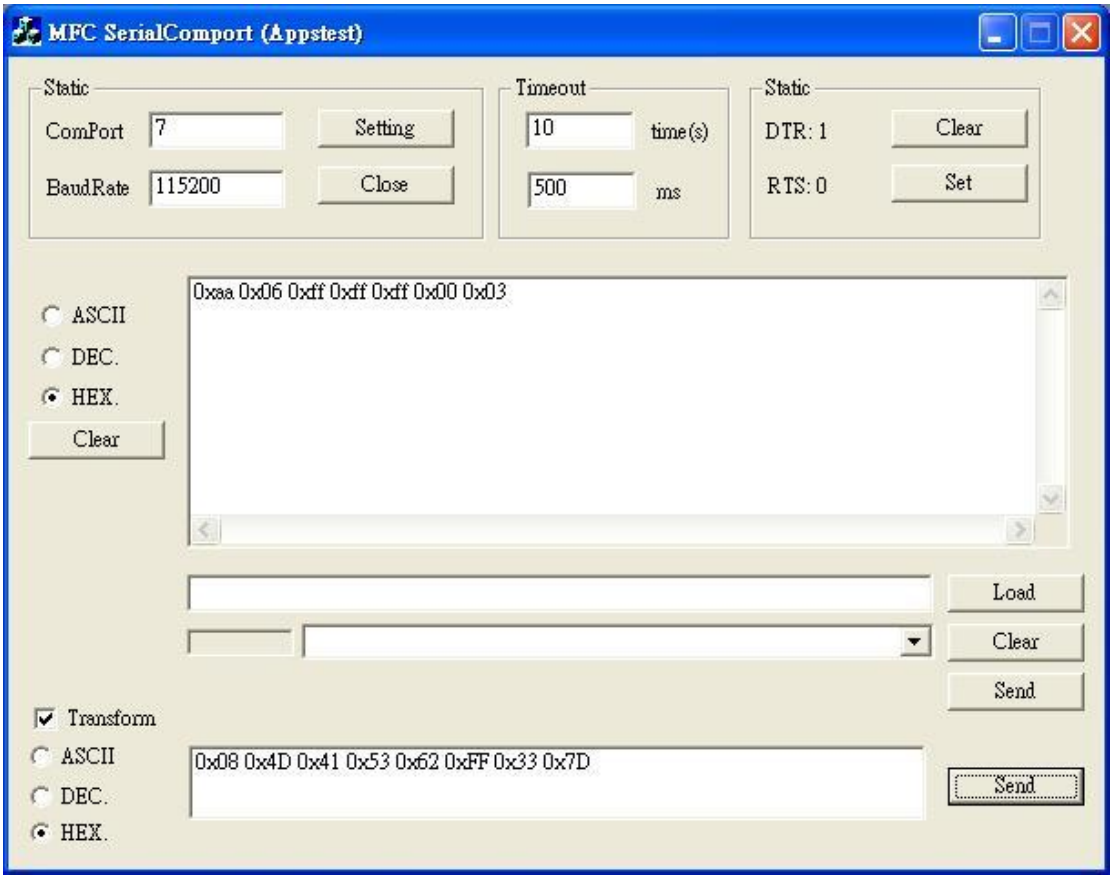

TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x4D 0x41 0x53 0x62 0xFF 0x32 0xC0 0xA8 0x01 0xEA 0xD3
Send
receive
0xAA
Clear



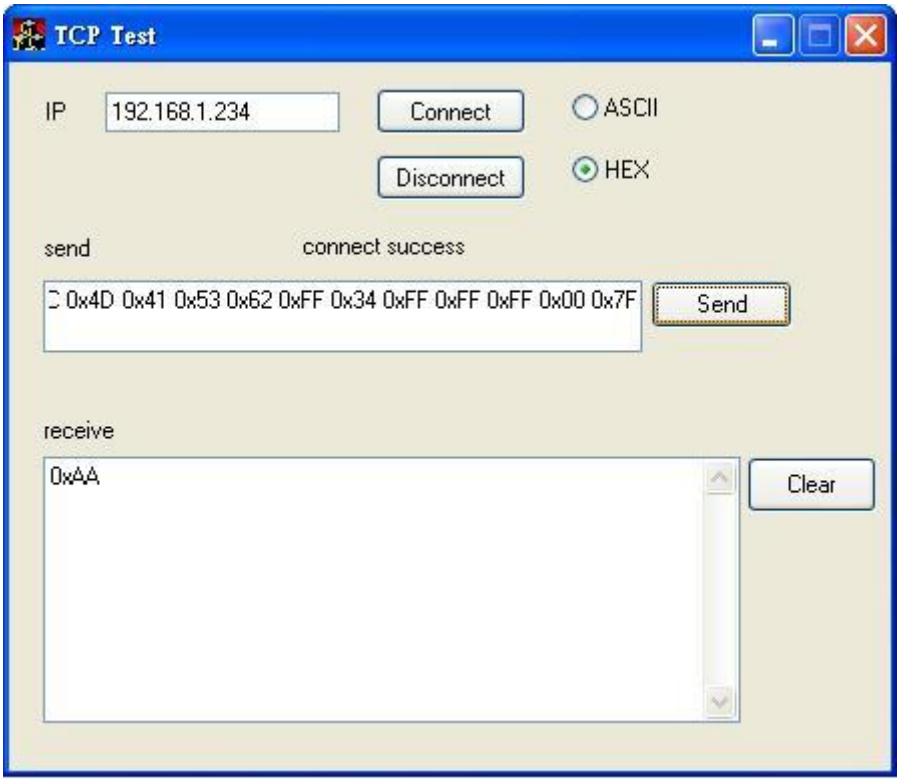

| Get Subnetmask | | | |
|---|---|---|---|
| Function Description:<br>Get Ethernet subnetmask. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x08 | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x33 | |
| 7 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right |

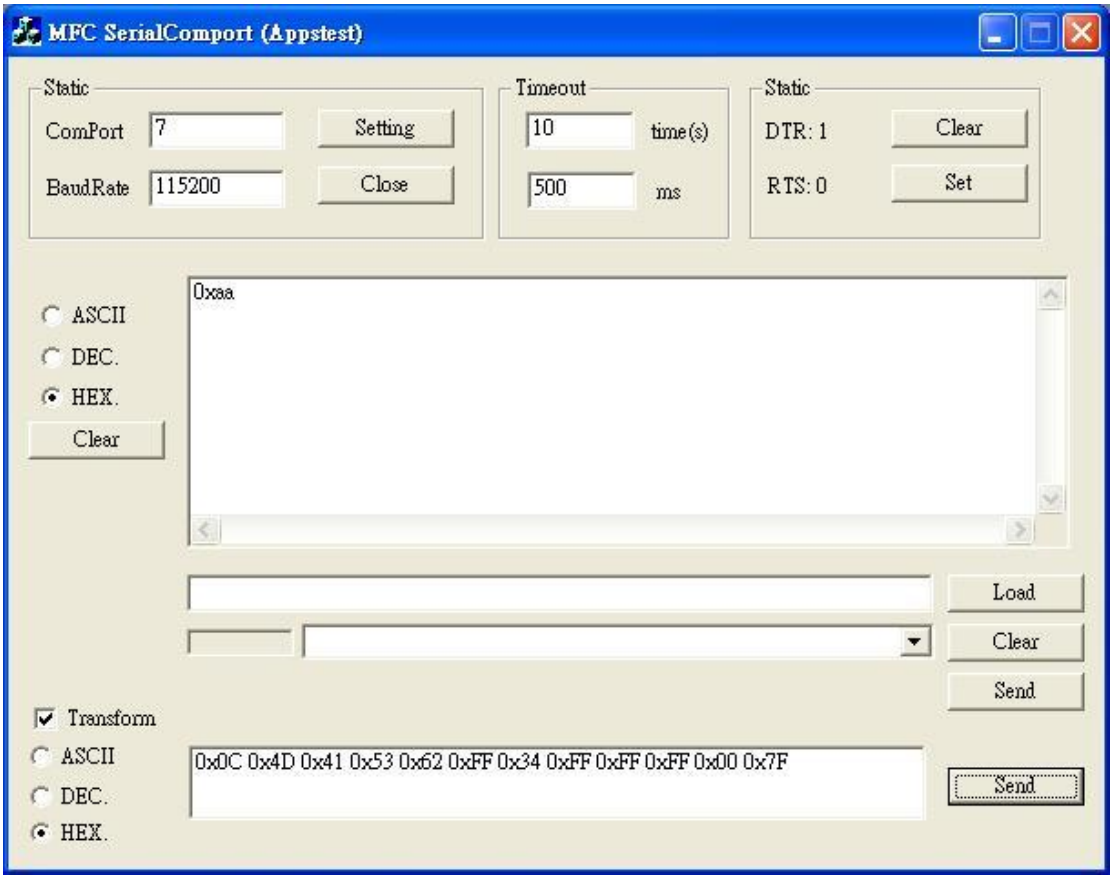
| | | | |
|---|---|---|---|
| | | | NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| 0 | Receive Length | 0x06 | |
| 1 | Receive Parameter 1 | A1 | Subnetmask Byte1 A1 |
| 2 | Receive Parameter 2 | A2 | Subnetmask Byte 2 A2 |
| 3 | Receive Parameter 3 | A3 | Subnetmask Byte 3 A3 |
| 4 | Receive Parameter 4 | A4 | Subnetmask Byte 4 A4 |
| 7 | Check Sum | 0x06+A1+A2+ A3+ A4 | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x08 0x4D 0x41 0x53 0x62 0xFF 0x33 0x7D
Send
receive
0xAA 0x06 0xFF 0xFF 0xFF 0x00 0x03
Clear

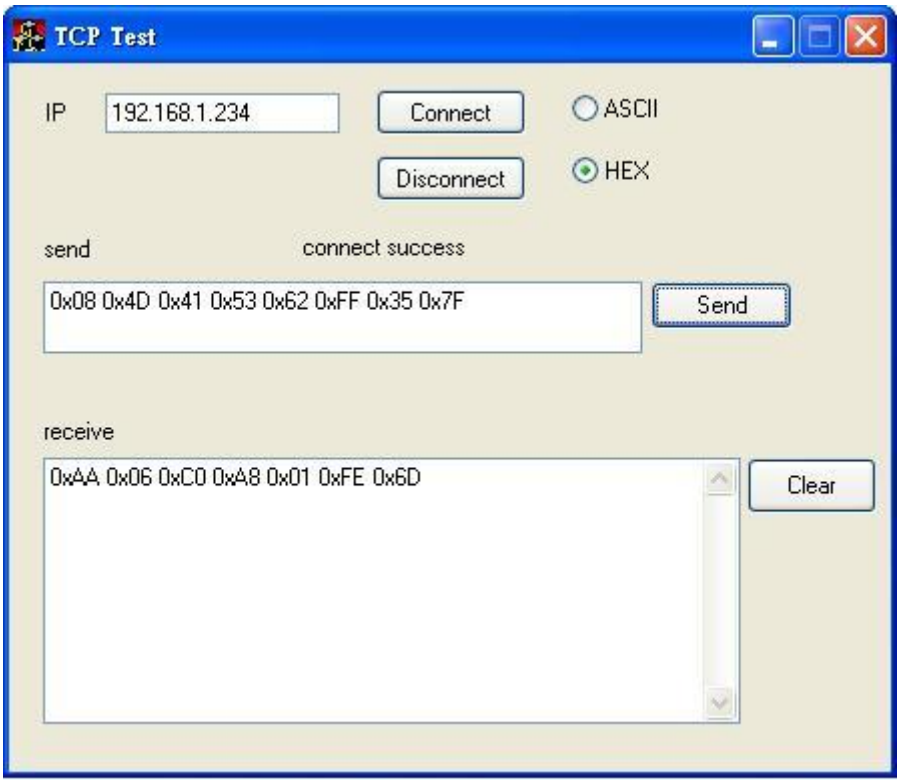

MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa 0x06 0xff 0xff 0xff 0x00 0x03
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x08 0x4D 0x41 0x53 0x62 0xFF 0x33 0x7D
Send

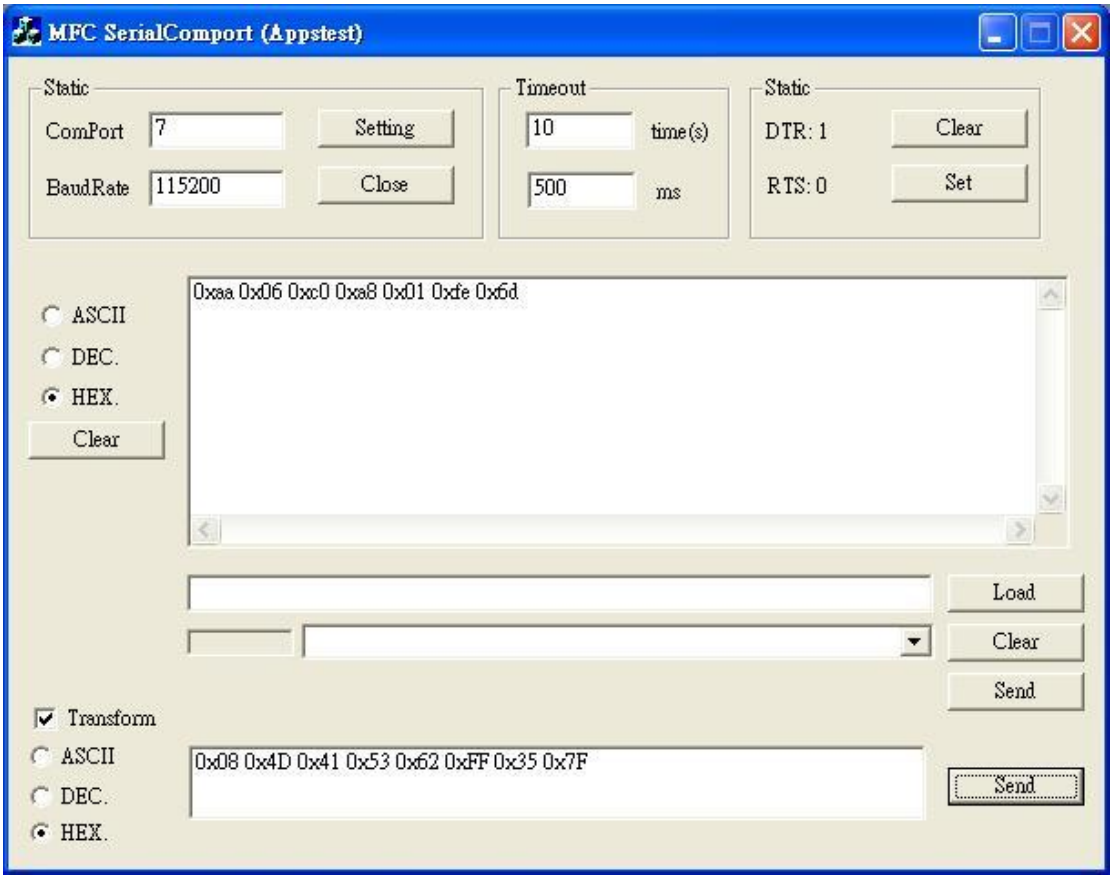
| Set Subnetmask | | | |
|---|---|---|---|
| Function Description:<br>Set Ethernet subnetmask. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x0C | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x34 | |
| 7 | Command Parameter 1 | A1 | Set subnetmask Byte1 A1 |
| 8 | Command Parameter 2 | A2 | Set subnetmask Byte2 A2 |
| 9 | Command Parameter 3 | A3 | Set subnetmask Byte3 A3 |
| 10 | Command Parameter 4 | A4 | Set subnetmask Byte4 A4 |
| 11 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| No Receive | | | |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x4D 0x41 0x53 0x62 0xFF 0x34 0xFF 0xFF 0xFF 0x00 0x7F
Send
receive
0xAA
Clear


MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x0C 0x4D 0x41 0x53 0x62 0xFF 0x34 0xFF 0xFF 0xFF 0x00 0x7F
Send

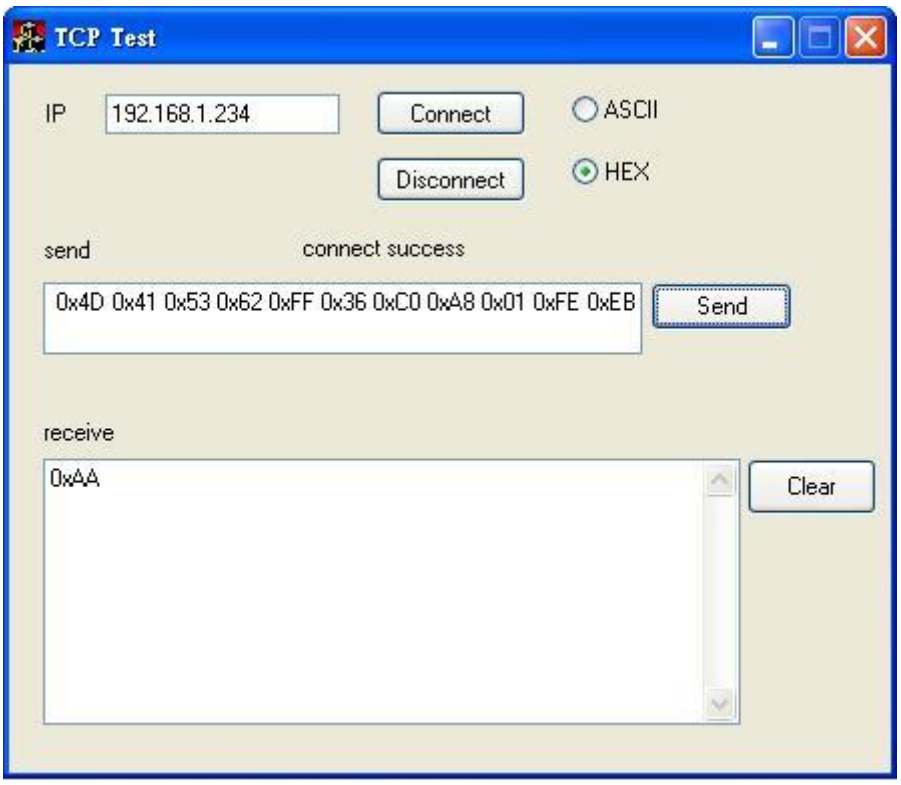
| Get Default Gate | | | |
|---|---|---|---|
| Function Description:<br>Get Ethernet default gate. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x08 | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x35 | |
| 7 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| 0 | Receive Length | 0x06 | |
| 1 | Receive Parameter 1 | A1 | Default gate Byte 1 A1 |
| 2 | Receive Parameter 2 | A2 | Default gate Byte 2 A2 |
| 3 | Receive Parameter 3 | A3 | Default gate Byte 3 A3 |
| 4 | Receive Parameter 4 | A4 | Default gate Byte 4 A4 |
| 7 | Check Sum | 0x06+A1+A2+ A3+ A4 | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |

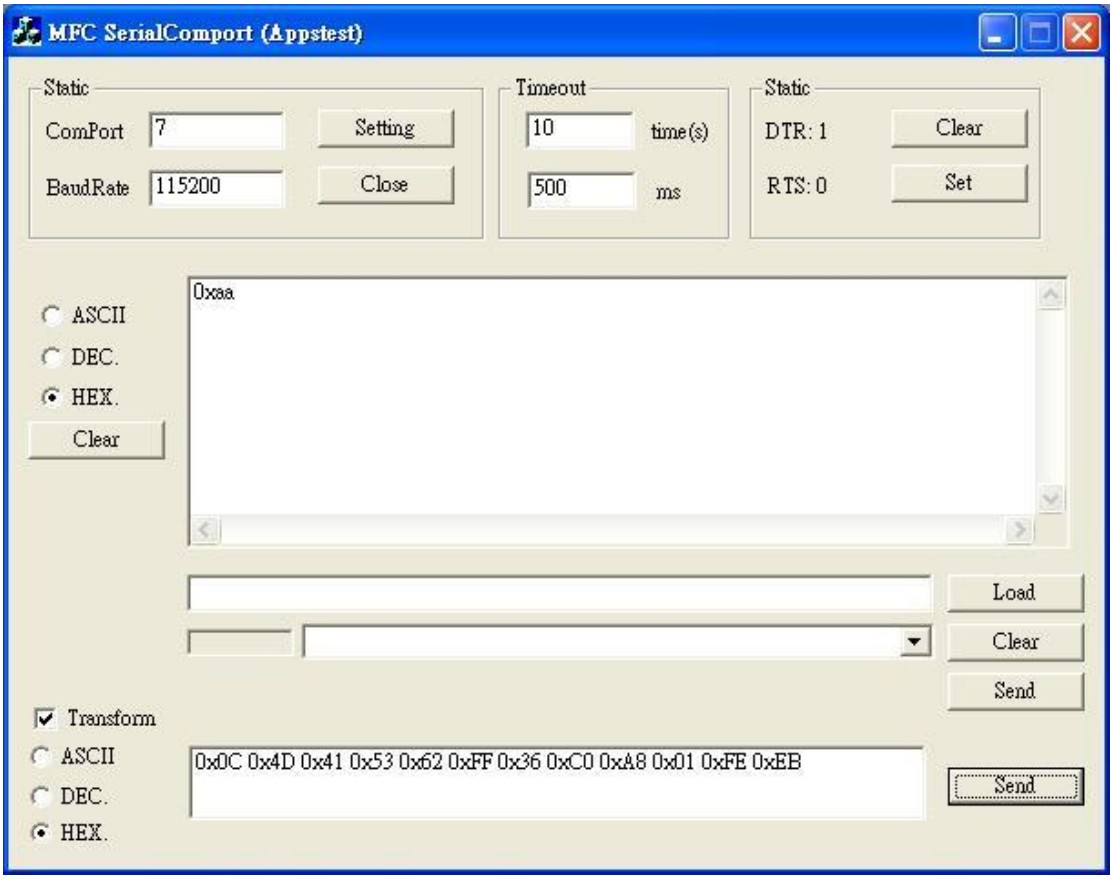

TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x08 0x4D 0x41 0x53 0x62 0xFF 0x35 0x7F
Send
receive
0xAA 0x06 0xC0 0xA8 0x01 0xFE 0x6D
Clear



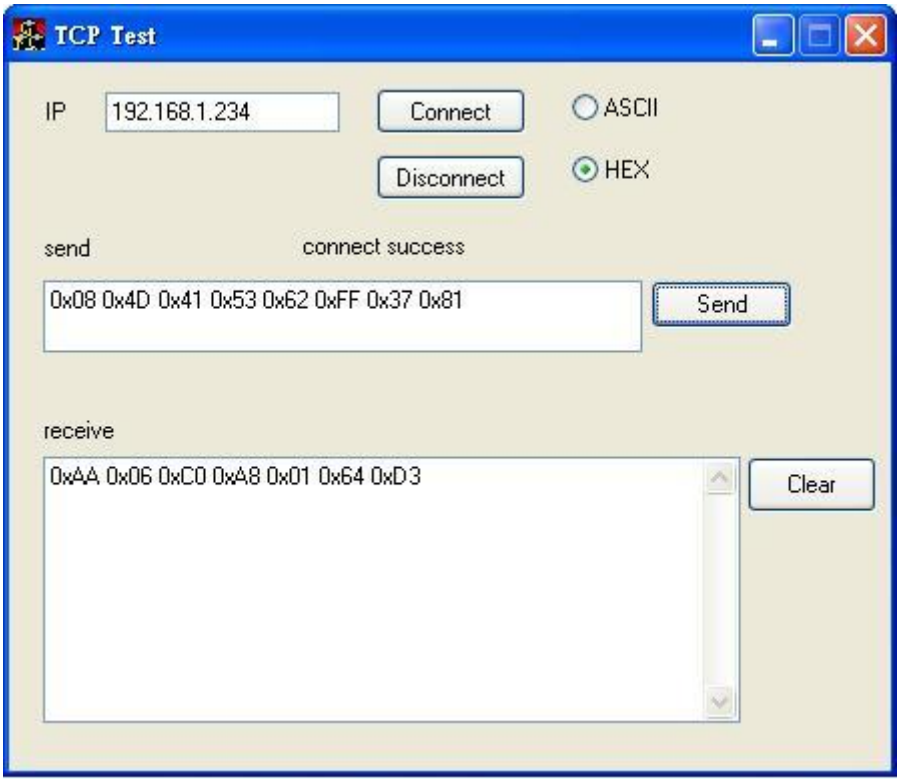

| Set Default Gate | | | |
|---|---|---|---|
| Function Description:<br>Set Ethernet default gate. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x0C | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x36 | |
| 7 | Command Parameter 1 | A1 | Set default gate Byte1 A1 |
| 8 | Command Parameter 2 | A2 | Set default gate Byte2 A2 |
| 9 | Command Parameter 3 | A3 | Set default gate Byte3 A3 |

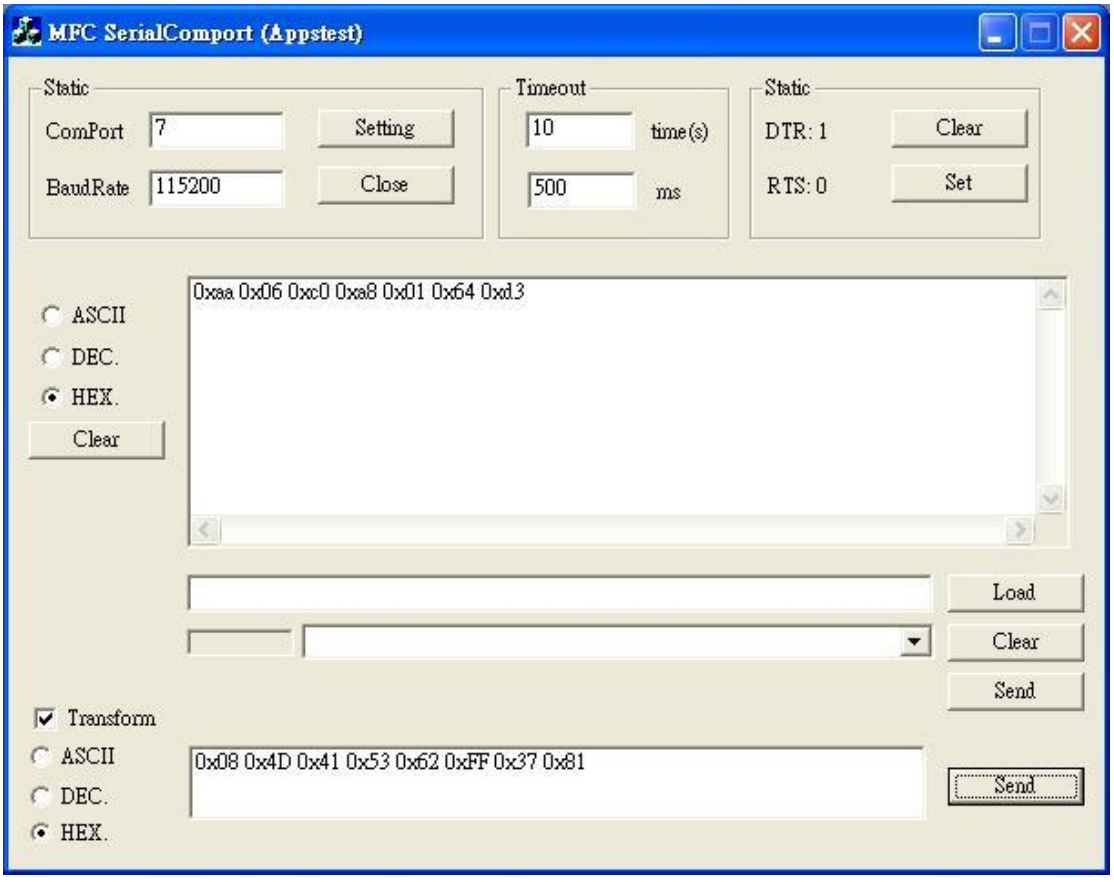
| | | | |
|---|---|---|---|
| 10 | Command Parameter 4 | A4 | Set default gate Byte4 A4 |
| 11 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| No Receive | | | |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x4D 0x41 0x53 0x62 0xFF 0x36 0xC0 0xA8 0x01 0xFE 0xEB
Send
receive
0xAA
Clear

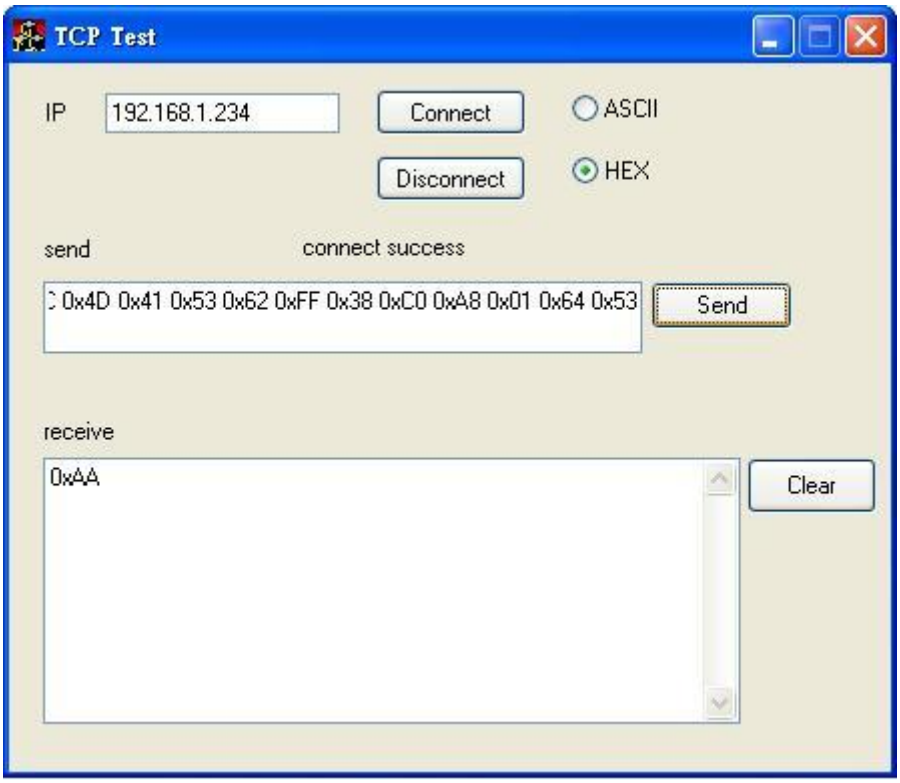

MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x0C 0x4D 0x41 0x53 0x62 0xFF 0x36 0xC0 0xA8 0x01 0xFE 0xEB
Send

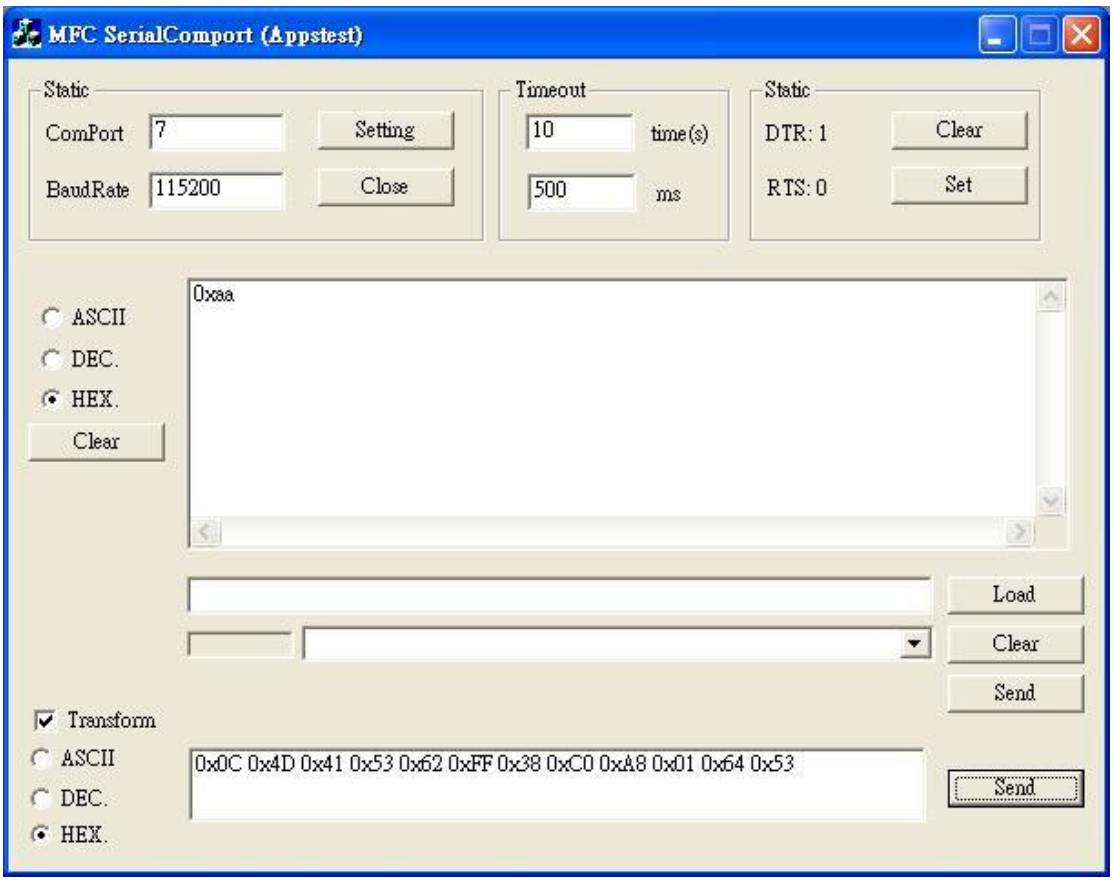
| Get Primary DNS Address | | | |
|---|---|---|---|
| Function Description:<br>Get Ethernet primary DNS. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x08 | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x37 | |
| 7 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| 0 | Receive Length | 0x06 | |
| 1 | Receive Parameter 1 | A1 | Primary DNS Byte 1 A1 |
| 2 | Receive Parameter 2 | A2 | Primary DNS Byte 2 A2 |
| 3 | Receive Parameter 3 | A3 | Primary DNS Byte 3 A3 |
| 4 | Receive Parameter 4 | A4 | Primary DNS Byte 4 A4 |
| 7 | Check Sum | 0x06+A1+A2+ A3+ A4 | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x08 0x4D 0x41 0x53 0x62 0xFF 0x37 0x81
Send
receive
0xAA 0x06 0xC0 0xA8 0x01 0x64 0xD3
Clear


MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa 0x06 0xc0 0xa8 0x01 0x64 0xd3
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x08 0x4D 0x41 0x53 0x62 0xFF 0x37 0x81
Send

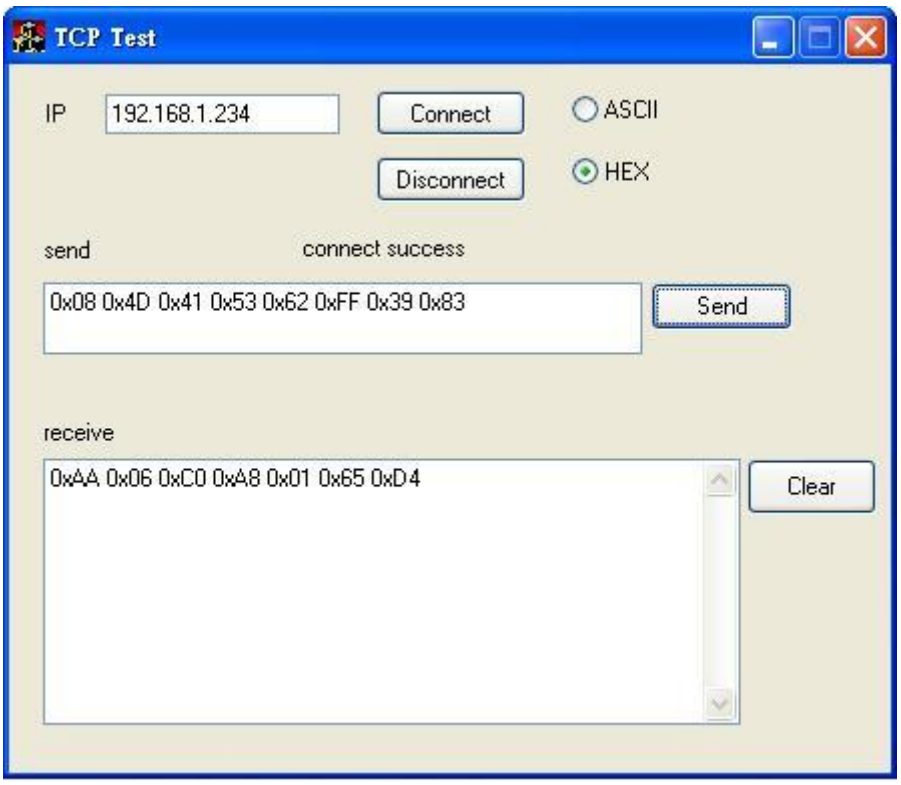
| Set Primary DNS Byte | | | |
|---|---|---|---|
| Function Description:<br>Set Ethernet primary DNS byte. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x0C | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x38 | |
| 7 | Command Parameter 1 | A1 | Set primary DNS Byte1 A1 |
| 8 | Command Parameter 2 | A2 | Set primary DNS Byte2 A2 |
| 9 | Command Parameter 3 | A3 | Set primary DNS Byte3 A3 |
| 10 | Command Parameter 4 | A4 | Set primary DNS Byte4 A4 |
| 11 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| No Receive | | | |

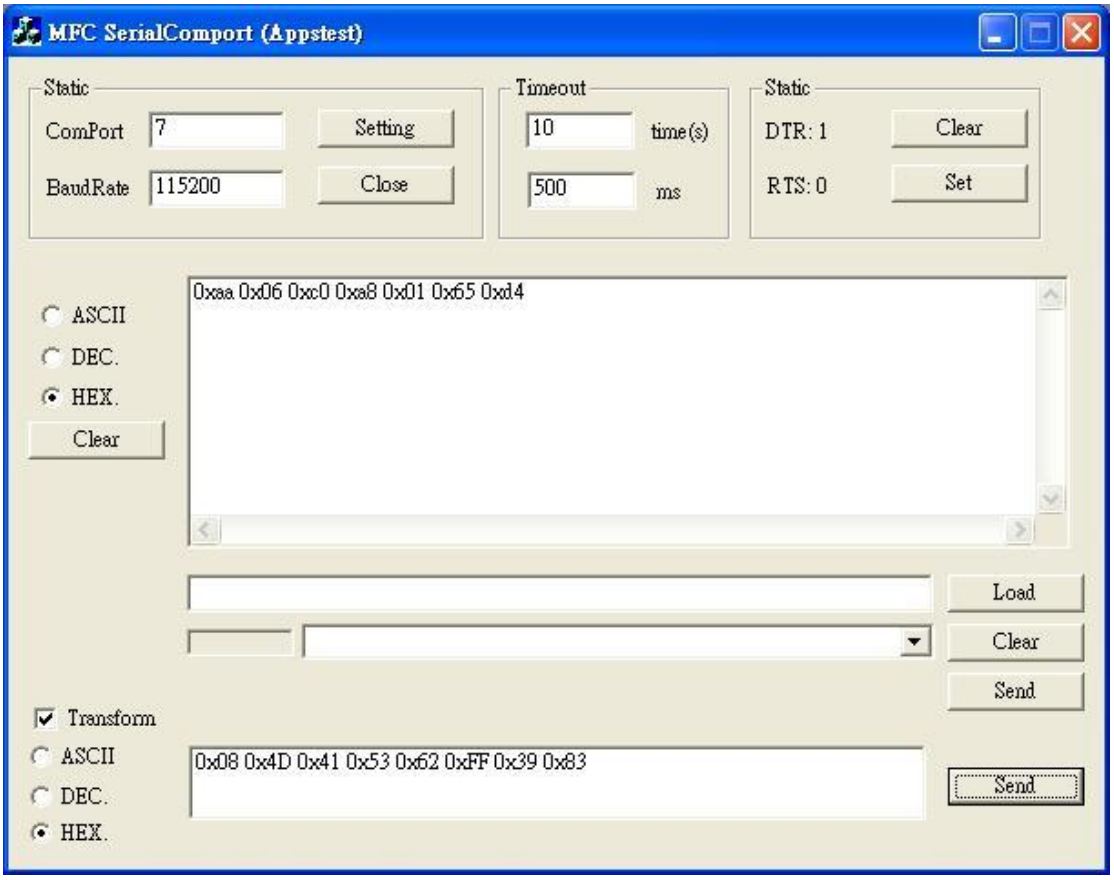

TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x4D 0x41 0x53 0x62 0xFF 0x38 0xC0 0xA8 0x01 0x64 0x53
Send
receive
0xAA
Clear



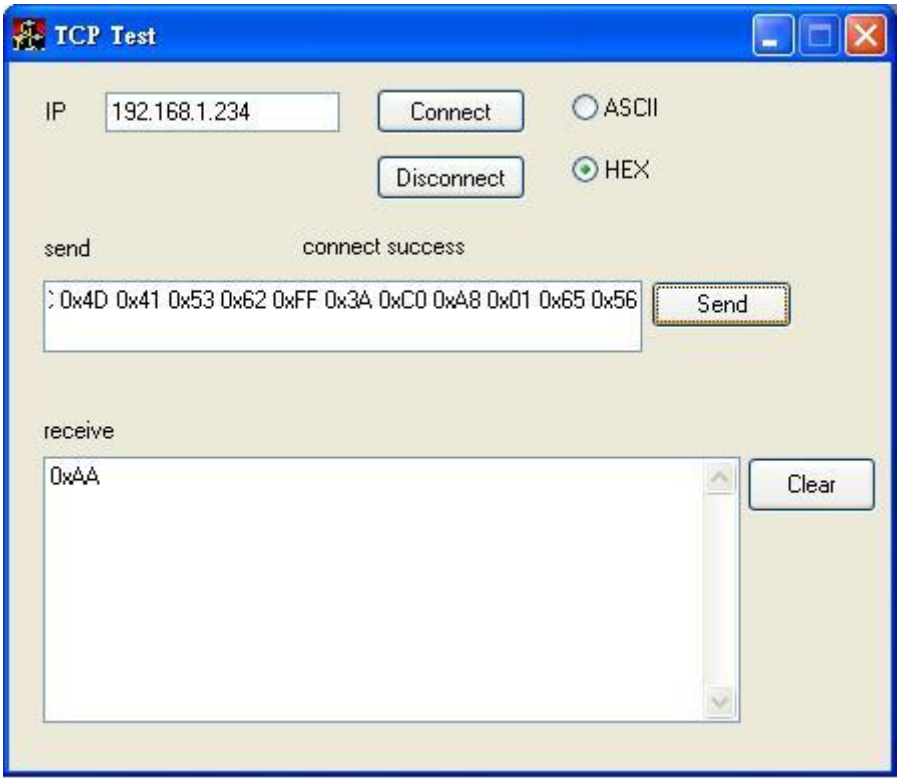

| Get Secondary DNS Address | | | |
|---|---|---|---|
| Function Description:<br>Get Ethernet secondary DNS. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x08 | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x39 | |
| 7 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right |

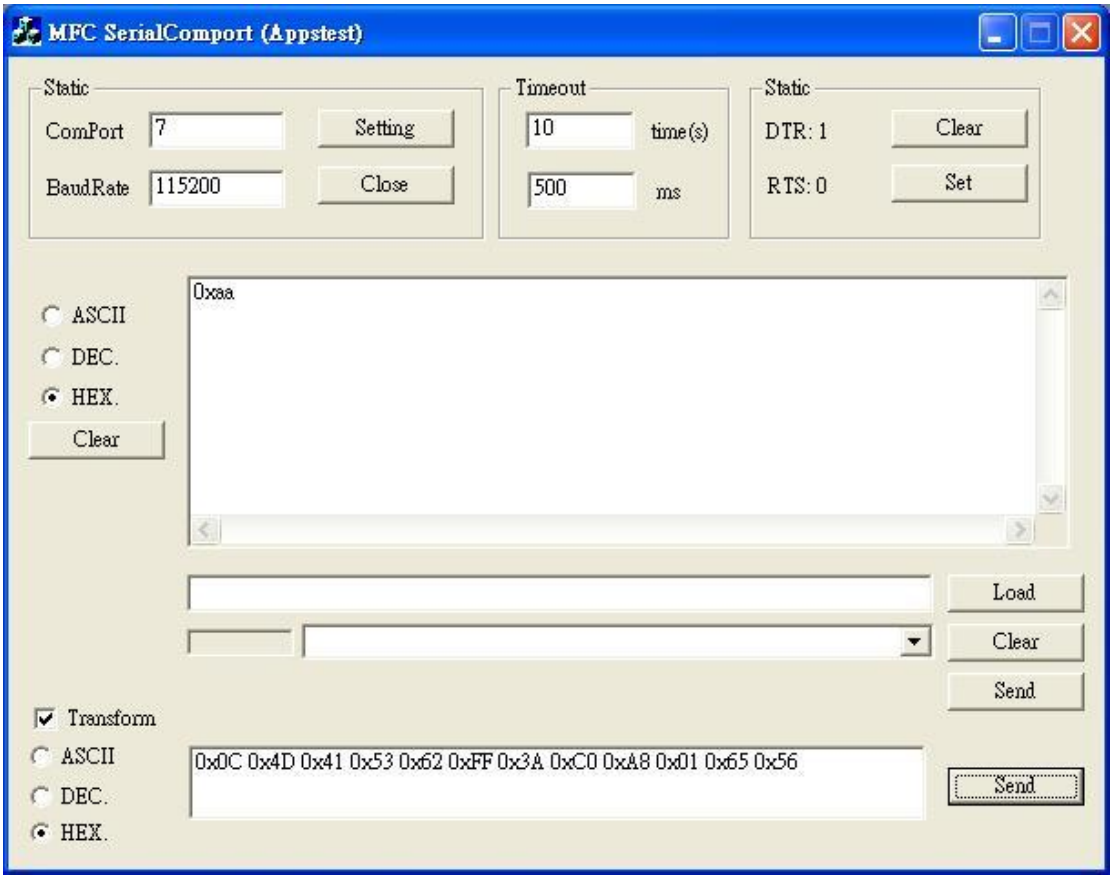
| | | | |
|---|---|---|---|
| | | | NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| 0 | Receive Length | 0x06 | |
| 1 | Receive Parameter 1 | A1 | Secondary DNS Byte 1 A1 |
| 2 | Receive Parameter 2 | A2 | Secondary DNS Byte 2 A2 |
| 3 | Receive Parameter 3 | A3 | Secondary DNS Byte 3 A3 |
| 4 | Receive Parameter 4 | A4 | Secondary DNS Byte 4 A4 |
| 7 | Check Sum | 0x06+A1+A2+ A3+ A4 | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x08 0x4D 0x41 0x53 0x62 0xFF 0x39 0x83
Send
receive
0xAA 0x06 0xC0 0xA8 0x01 0x65 0xD4
Clear


MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa 0x06 0xc0 0xa8 0x01 0x65 0xd4
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x08 0x4D 0x41 0x53 0x62 0xFF 0x39 0x83
Send

| Set Secondary DNS Byte | | | |
|---|---|---|---|
| Function Description:<br>Set Ethernet secondary DNS byte. | | | |
| Command | | | |
| Byte | Name | Value | Comment |
| 0 | Command Length | 0x0C | |
| 1 | Check Code 1 | 0x4D | |
| 2 | Check Code 2 | 0x41 | |
| 3 | Check Code 3 | 0x53 | |
| 4 | Check Code 4 | 0x62 | |
| 5 | Device ID | | Default : 0xFF |
| 6 | Command ID | 0x3A | |
| 7 | Command Parameter 1 | A1 | Set secondary DNS Byte1<br>A1 |
| 8 | Command Parameter 2 | A2 | Set secondary DNS Byte2<br>A2 |
| 9 | Command Parameter 3 | A3 | Set secondary DNS Byte3<br>A3 |
| 10 | Command Parameter 4 | A4 | Set secondary DNS Byte4<br>A4 |
| 11 | Check Sum | | BYTE CheckSum = 0;<br>for(int i =0; i<n; i++ )<br>CheckSum += Byte(i); |
| Acknowledgement character | | | |
| 0 | ACK/NACK | 0xAA/0x55 | ACK: 0xAA<br>Command Value is right<br>NACK: 0x55<br>Command Value is error. |
| Receive | | | |
| No Receive | | | |


TCP Test
IP
192.168.1.234
Connect
Disconnect
ASCII
HEX
send
connect success
0x4D 0x41 0x53 0x62 0xFF 0x3A 0xC0 0xA8 0x01 0x65 0x56
Send
receive
0xAA
Clear


MFC SerialComport (Appstest)
Static
ComPort
7
Setting
BaudRate
115200
Close
Timeout
10
time(s)
500
ms
Static
DTR: 1
Clear
RTS: 0
Set
ASCII
DEC.
HEX.
Clear
0xaa
Load
Clear
Send
Transform
ASCII
DEC.
HEX.
0x0C 0x4D 0x41 0x53 0x62 0xFF 0x3A 0xC0 0xA8 0x01 0x65 0x56
Send

The SELLER warrants the **36x36 HDMI Matrix Switcher with Full 3D Support** to be free from defects in the material and workmanship for 3 years from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 3 years warranty period, the SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables and power adapters are limited to a 30 day warranty and must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the AV-GM07G3-S1 features and specifications is subject to change without further notice.

**Support**

For more info or tech support

**http://www.siig.com/support**

April, 2018