

Siemens S7-1200/S7-1500 (Absolute Addressing)

(Ethernet)

Supported Series: Siemens S7-300/1200/1500 Series, ET200SP series Website: <u>http://www.siemens.com/entry/cc/en/</u>

HMI Setting:

| Parameters | Recommended | Options | Notes |
|------------|---------------------|--------------------|---------------------|
| PLC type | Siemens S7-1200/S7- | 1500 (Absolute Add | ressing) (Ethernet) |
| PLC I/F | Ethernet | | |
| Port no. | 102 | | |
| Rack | 0 | | |
| CPU slot | 1 | | |

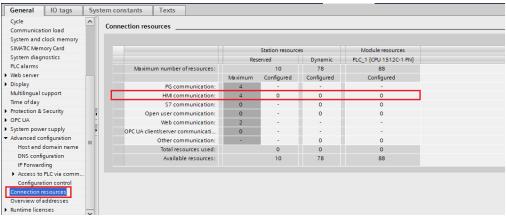
| On-line simulator | Yes | Multi-HMI connect | TIA Settings *Note |
|-------------------|-----|-------------------|--------------------|
| | | | |

*Connect S7-300 settings

| Device Settings | × |
|---|---|
| IP Address Settings | |
| IP address: 192 . 168 . 1 . 111 Accessiable Nodes Port no.: 102 | |
| Parameter Settings | |
| Communication Settings Link type : PG | |
| CPU Settings | |
| Rack (0~7): 0 ▼ CPU slot (1~31): 2 ▼ | |
| Register Behavior | |
| String Type : Fill 0x00 for remaining spaces 💌 | |

Note:

According to Connection resource / HMI Communication settings



Support Device Type:

| Data type | EasyBuilder data format | Memo |
|-----------|-----------------------------------|--------|
| Bool | bit | |
| Byte | 16-bit BCD, Hex, Binary, Unsigned | 8-bit |
| SInt | 16-bit BCD, Hex, Binary, Signed | 8-bit |
| USInt | 16-bit BCD, Hex, Binary, Unsigned | 8-bit |
| Word | 16-bit BCD, Hex, Binary, Unsigned | 16-bit |
| Int | 16-bit BCD, Hex, Binary, Signed | 16-bit |
| UInt | 16-bit BCD, Hex, Binary, Unsigned | 16-bit |
| DWord | 32-bit BCD, Hex, Binary, Unsigned | 32-bit |
| DInt | 32-bit BCD, Hex, Binary, Signed | 32-bit |
| Real | 32-bit Float | 32-bit |
| UDInt | 32-bit BCD, Hex, Binary, Unsigned | 32-bit |
| LInt | 64-bit Signed | |
| ULInt | 64-bit Unsigned | |
| LReal | 64-bit Double | |
| Array | | |

Note1: EasyBuilder Pro V6.03.02 or later supports 64 bits data type, but please note that the address limit range is 48 bits in maximum.

Note2: Importing data types other than those in the above table may result in failure to communicate.



User define type

1. User define type can be established in PLC data type

| | | | UD | Т | | | | | | |
|---------------------------|------|---|----|----------|-----------|---------------|--------------|------------|----------|------|
| Word_Array [DB7] | ^ | | | Name | Data type | Default value | Accessible f | Visible in | Setpoint | Comm |
| Technology objects | - 11 | 1 | - | UDT_Bool | Bool | false | | | | |
| 🕨 🔚 External source files | - 11 | 2 | -0 | UDT_Int | Int | 0 | | | | |
| PLC tags | - 11 | | | | | | | | | |
| 🔻 [😋 PLC data types | - 11 | | | | | | | | | |
| 📑 Add new data type | - 11 | | | | | | | | | |
| II UDT | | | | | | | | | | |
| Watch and force tables | | | | | | | | | | |

2. User define type can be used in DB. User-defined types mapping address fuction are not supported. When using a user-defined type, please add it to the end of DB, to avoid influencing import and communication (address offset calculation).

| 🕶 🛃 Program blocks | | 4 | -0 | | Sint | SInt | 2.0 | 0 | - | | | |
|--|------|----|----|---|------------------------------|--------|-------|-------|---|--|---------|---|
| Add new block | | - | | | USInt | USInt | 3.0 | 0 | 8 | | | 8 |
| Main [OB1] | | 2 | | - | | | 4.0 | | 8 | | | 8 |
| | - 11 | 0 | | _ | Word | Word | | 16#0 | | M | | |
| All_Type [DB2] | - | 7 | -0 | • | | Int | 6.0 | 0 | | | | |
| Array [DB1] | | 8 | -0 | • | UInt | UInt | 8.0 | 0 | | | | |
| BigArray (DB18) | | 9 | -0 | • | DWord | DWord | 10.0 | 16#0 | | | | |
| Bool_Array [DB3] | | 10 | -0 | • | Dint | Dint | 14.0 | 0 | | | | |
| Byte_Array [DB4] | | 11 | -0 | | Real | Real | 18.0 | 0.0 | | | | |
| CN [DB16] | | 12 | -0 | • | UDInt | UDInt | 22.0 | 0 | | | | |
| Data_block_1 (DB14) | | 13 | | | String | String | 26.0 | | | | | |
| Data_block_2 (DB15) | | 14 | - | • | Static_1 | "UDT" | 282.0 | | | | | |
| Dint_Array (DB11) | | 15 | -0 | | UDT_Bool | Bool | 0.0 | false | | Image: A start and a start | 1 | |
| DWord_Array (DB10) | | 16 | -0 | | UDT_Int | Int | 2.0 | 0 | | Image: A start and a start | 1 | |
| Int_Array (DBS) | | | | | | | | | | | | |
| A set of | | | | | | | | | | | | |

3. User define type cannot be imported automatically, you need to manually create an address in EasyBuilder Pro to communicate.

| Device : | Siemens \$7-1200/\$7-1500 |
|---|---|
| Address type : | |
| | |
| Address : | |
| Address format : | DDDDDo [range : 0 ~ 655327, o (bit no.) : 0 ~ 7] |
| | Index register |
| | |
| | |
| Tag Library | OK Cancel |
| | |
| | |
| | |
| Device : | Siemens S7-1200/S7-1500 |
| Device : Address type : | |
| | DB2 V |
| Address type : Address : | DB2 V |
| Address type : Address : | DB2 v 284 |
| Address type : Address : | DB2 v 284 DDDDD [range : 0 ~ 65532] |
| Address type : Address : Address format : | DB2 v 284 DDDDD [range : 0 ~ 65532] Index register (arithmetic operations +-*/ or more) from raw data, use an user-defined tag with |



Device Address:

| Bit/Word | Device type | Format | Range | Memo |
|----------|----------------|-------------|-----------------|--------------------|
| В | I | DDDDDo | 0 ~ 655357 | Input (I) |
| В | Q | DDDDDo | 0 ~ 655357 | Output (O) |
| В | М | DDDDDo | 0 ~ 655357 | Bit Memory |
| В | DBnBit | FFFFFDDDDo | 0 ~ 6553599997 | |
| В | DBxBit | FFFFFDDDDDo | 0 ~ 10700655327 | |
| В | DB1Bit-DB99Bit | DDDDDo | 0 ~ 655357 | Data Register Bit |
| BYTE | IB | DDDDD | 0 ~ 65535 | Input (I) |
| W | IW | DDDDD | 0 ~ 65533 | Input (I) |
| DW | ID | DDDDD | 0 ~ 65535 | Input (I) |
| LW | IL | DDDDD | | |
| BYTE | QB | DDDDD | 0 ~ 65535 | Output (O) |
| W | QW | DDDDD | 0 ~ 65533 | Output (O) |
| DW | QD | DDDDD | 0 ~ 65535 | Output (O) |
| LW | QL | DDDDD | 0 ~ 65535 | |
| BYTE | MB | DDDDD | 0 ~ 65535 | Bit Memory |
| W | MW | DDDDD | 0 ~ 65533 | Bit Memory |
| DW | MD | DDDDD | 0 ~ 65535 | Bit Memory |
| LW | ML | DDDDD | 0 ~ 65535 | |
| BYTE | DBBn | FFFFFDDDD | 0 ~ 655359999 | Data Register |
| BYTE | DBBx | FFFFFDDDDD | 0 ~ 1070065535 | Data Register |
| W | DBn | FFFFFDDDD | 0 ~ 655359999 | Data Register |
| W | DBx | FFFFFDDDDD | 0 ~ 1070065535 | Data Register |
| DW | DBDn | FFFFFDDDD | 0 ~ 655359999 | Data Register |
| DW | DBDx | FFFFFDDDDD | 0 ~ 1070065535 | Data Register |
| LW | DBLx | FFFFFDDDDD | 0 ~ 1070065535 | |
| LW | DBLn | FFFFFDDDD | 0 ~ 599999999 | |
| W | DBn_String | FFFFFDDDD | 0 ~ 655359999 | Char Array |
| W | DBx_String | FFFFFDDDDD | 0 ~ 1070065535 | Char Array |
| W | DBn_String1 | FFFFFDDDD | 0 ~ 655359999 | String |
| W | DBx_String1 | FFFFFDDDDD | 0 ~ 1070065535 | String |
| DW | DBDn_String | FFFFFDDDD | 0 ~ 655359999 | Char Array |
| DW | DBDx_String | FFFFFDDDDD | 0 ~ 1070065535 | Char Array |
| W | DB1 ~ DB99 | DDDDD | 0 ~ 65535 | Data Register |
| DW | S5TIME_10Ms | FFFFFDDDD | 0 ~ 655359999 | 10MS ~ 9S990MS |
| DW | S5TIME_100Ms | FFFFFDDDD | 0 ~ 655359999 | 100MS ~ 1M39S900MS |

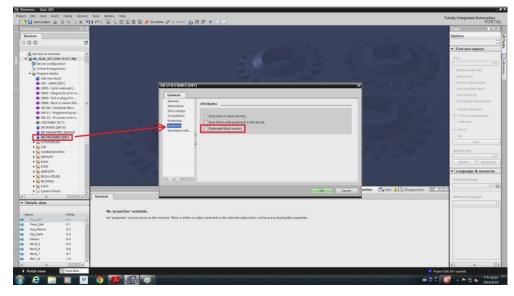
| PLC Connection G | | | | | | | |
|------------------|-------------|-----------|---------------|----------------|--|--|--|
| Bit/Word | Device type | Format | Range | Memo | | | |
| DW | S5TIME_1S | FFFFFDDDD | 0 ~ 655359999 | 1S ~ 16M39S | | | |
| DW | S5TIME_10S | FFFFFDDDD | 0 ~ 655359999 | 10S ~ 2H46M30S | | | |

- Double word and floating point value must use DBDn device type.
- When using **DBn**, **DBDn**, **DBLn**, **DBx**, **DBDx**, **DBLx** addresses, the object address must be an even number due to the limitation of the original software protocol.

PLC Setting:

Note: Please follow the settings below, or the communication may fail.

1. Do not check [DB UTILITAIRES] -> [Attributes] -> [Optimized block access]



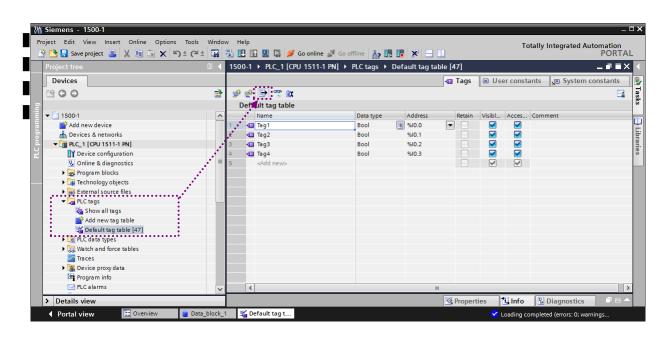
2. Check [General] -> [Protection] -> [Permit access with PUT/GET communication from remote partner]

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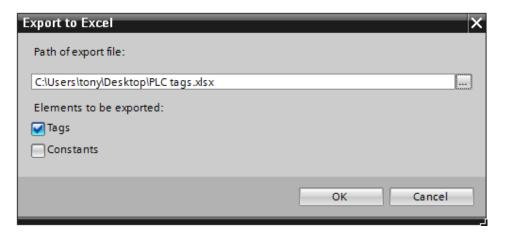


How to import address tags using TIA portal?

- 1. Exporting PLC Tags (.xlsx file format).
- 1.1 Under [PLC tags] create the address tags and then click the Export icon.



1.2 Designate the directory to save the file and click OK button.

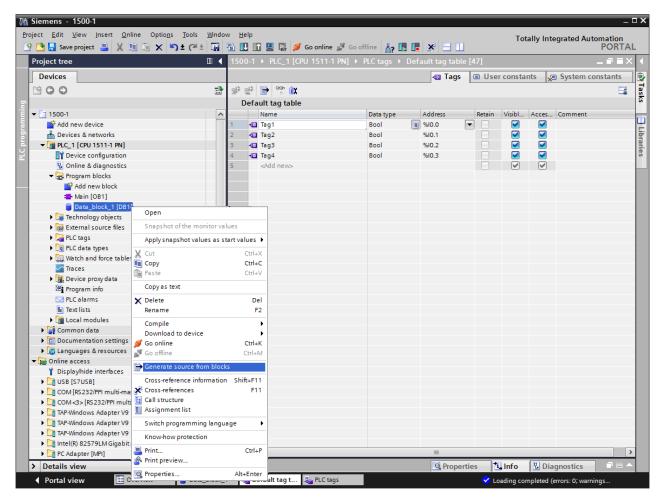






2. Exporting Program Blocks (.scl file format).

2.1 Under [Program blocks] create "Data_block_1 [DB1]" as shown in the following figure. Click the right mouse button on [DB1] and then click [Generate source from blocks].



2.2 In EasyBuilder click [New PLC...], select *Siemens S7-1500 (Ethernet)* PLC type, and then click [Settings...] to set the parameters.

| | | Device Proper | ties | | | | | |
|--|---|----------------|------------|--------|-------|--|--|--|
| Siemens AG | | | v [| Searc | :h | | | |
| Siemens LOGO Siemens S7-12 Siemens S7-15 | 00 (Ethernet) | | | | ^ | | | |
| Siemens S7-20 Siemens S7-20 Siemens S7-20 | 0 (Ethernet) | ress) | | | | | | |
| Siemens S7-20 Siemens S7-20 Siemens S7-20 Siemens S7-30 | 0 PPI 0 SMART (Eth 0 SMART PPI 0 | ernet) | | | | | | |
| Siemens S7-30 | 0 (ISO Etherne | et) | | | ~ | | | |
| Device type | Bit//Word | Address format | Max. ad | Min. a | Des ^ | | | |
| QB | Word | DDDD | 4095 | 0 | | | | |
| QD | Word | DDDD | 4094 | 0 | | | | |
| IB | Word | DDDD | 4095 | 0 | | | | |
| ID | Word | DDDD | 4094 | 0 | | | | |
| DBBn | Word | FFFFFDDDD | 655359 | 0 | | | | |
| MB | IB Word DDDD 4095 0 🗸 | | | | | | | |
| < | 1 | | | | > | | | |
| Open PLC Conne | ction Guide | | ОК | Can | cel | | | |

| IP Address Settings |
|--|
| IP address : 192 . 168 . 1 . 231 Accessible Nodes Port no. : 102 |
| Timeout (sec) : 1.0 v Turn around delay (ms) : 0 |
| Link type : PG v CPU settings Rack (0~7) : 0 v CPU slot (1~31) : 1 v |
| OK Cancel |

2.3 Click [Import Tag...] button.

| | | Systen | n Parameter | Settings | | | | |
|--------------|--|-----------|--------------|-----------|------------|---------|--------|--|
| Extended | Extended Memory Printer/Backup Server e-Mail Recipes | | | | | | | |
| Device | Model | Genera | Syste | m Setting | ng Securit | | y Font | |
| evice list : | | | | | | | | |
| No. | Name | Locat | ion Device t | /pe Inter | face | I/F Pro | otocol | |
| Local HMI | Local HMI | Local | eMT3105 | 5 (800 | | - | | |
| Local PLC 4 | 4 Siemens S | 7-1 Local | Siemens | S7-1 Ethe | rnet (IP=1 | TCP/IF | Þ | |
| | | | | | | | | |
| | | | | | _ | | > | |

2.4 Select file type (***.scl**; ***.db**) or select TIA file (***.apxx**) for import (**TIA File is recommended**). Compiling the TIA file by using TIA software before import is necessary to avoid importing incomplete data.

Note1. Before importing TIA Files, users need to compile the file and download it to the PLC. (.ap12~17).

| VIA | Siem | ens - | C:\Use | rs\tony\[| Documen | ts\Auto |
|-------|------------|--------------------|-------------------|----------------|----------------|----------------|
| Pr | oject | <u>E</u> dit | <u>V</u> iew | <u>I</u> nsert | <u>O</u> nline | Optio <u>n</u> |
| | ř 🖻 | 0 | p <u>e</u> n obje | ect | | |
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| Import Tags | × |
|---|--------------------------------|
| Importer type | Туре |
| Import Files (*.sd;*.db) | Linear |
| Import Files (*.ap*) | Hierarchical |
| | |
| < | > |
| Multiple tag importers are available for this protocol. P appears. | lease select the importer type |
| | OK Cancel |

Note: CPU 1510SP-1 PN (6ES7510-1DJ01-0AB0)

Unable to import using TIA project (*.ap*), please use [Get tag info] instead.

2.4.1 Import Files (*.scl; *.db)

Select the PLC Tags and Program Blocks to be imported, click [Import] button, and then click [OK] to leave when the tags are imported successfully.

* At least one db file must be imported. If only plc tags cannot be imported successfully.

| | | Import Tags | | × |
|------|-------------------|---|---------------|--------|
| PLC | tags | | | |
| | File name : | C:\Users\tony\Desktop\1500\PLC tags.xlsx | | Browse |
| Prog | ram blocks | | | |
| | DB Number | [Program Blocks] file name | | |
| | DB1 | C:\Users\tony\Desktop\1500\DB1.sd | | |
| - | | | | |
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| | | ormation successfully. (C:\Users\tony\Desktop\1500\PL | .C tags.xlsx) | |
| | Import tag info | ormation successfully. (DB1) | | |
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| | < Import |] | ОК | Cancel |

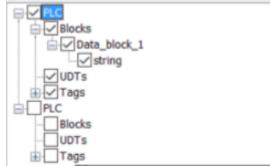




2.42 Import Files (*.ap*)

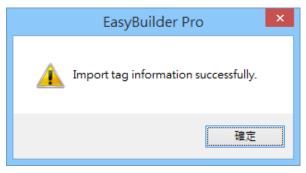
Select the tags to be imported and then click **OK**.

(Support multiple devices in the same project)



*Note: Before importing the file, the editor needs to confirm that the TIA project is compiled and downloaded to the PLC and runs correctly.

2.5 The following message window is shown if the import has succeeded.





Get Tag Info:

- 1. In S7-1200/1500 program software create PLC program and tag and then download to PLC.
- 2. Select Go offline, EasyBuilder will connect to PLC and get tag data. In PLC type select "SIEMENS S7-1200/1500 (Absolute Addressing) (Ethernet)".

| Name: Siemens S7-1200/S7-1500 OHMI Device Location: Local i_cal Settings * Select Local for a device connected to this HMI, or Remote for a device connected through a HMI. Device type: Siemens S7-1200/S7-1500 (Absolute Addressing) (Ethernet) Device type: Siemens S7-1200/S7-1500 (Absolute Addressing) (Ethernet) Device to D: 477, V.2.00, SIEMENS_S7_1500_ETHERNET.e.30 I/F: Ethernet Open Device Connection Guide * Support off-line simulation on HMI (use LB-12358). IP: IP: 192.168.1.98, Port=102 Settings Use UDP (User Datagram Protocol) Interval of block pack (words) : 5 | | | Dev | vice Settin | gs | |
|--|---------------|--|--------------|----------------|---------------------|---------------------|
| Location : Local v Settings | Name : | Siemens S7-12 | 200/S7-150 | 0 | | |
| * Select Local for a device connected to this HMI, or Remote for a device connected through a HMI. Device type : Siemens S7-1200/S7-1500 (Absolute Addressing) (Ethernet) Device type : Siemens S7-1200/S7-1500 (Absolute Addressing) (Ethernet) Device ID : 477, V.2.00, SIEMENS_S7_1500_ETHERNET.e.30 I/F : Ethernet I/F : Ethernet V Open Device Connection Guide. * * Support off-line simulation on HMI (use LB-12358). IP : [192.168.1.98, Port=102 IP : [192.168.1.98, Port=102 Settinger | | | Device | | | |
| HML. Device type : Siemens \$7-1200;57-1500 (Absolute Addressing) (Ethermet) Device ID : 477, V.2.00, SIEMENS_57_1500_ETHERNET.e30 I/F : Ethermet v Open Device Connection Guide. * Support off-line simulation on HMI (use LB-12358). IP : [192.168.1.98, Port=102 Settings Use UDP (User Datagram Protocol) | Location : | Local | ¥ 5 | ettings | | |
| Pevice ID : 477, V.2.00, SIEMENS_S7_1500_ETHERNET. 30 I/F : Ethernet v Open Device Connection Gnide * Support off-line simulation on HMI (use LB-12358). IP : 192.168.1.98, Port=102 Use UDP (User Datagram Protocol) | | device connecto | ed to this H | IMI, or Remote | e for a device conr | nected through anot |
| IF: Ethernet Open Device Connection Gruide * Support off-line simulation on HMI (use LB-12358). IP: 192.168.1.98, Port=102 IP: 192.168.1.98, Port=102 Settings Use UDP (User Datagram Protocol) IP: Settings | Device type : | Sieme | ns S7-1200 | /S7-1500 (Ab: | colute Addressing) | (Ethernet) |
| * Support off-line simulation on HMI (use LB-12358). IP : [192.168.1.98, Port=102 Ulse UDP (User Datagram Protocol) | | Device ID : 477 | 7, V.2.00, S | SIEMENS_S7_: | 1500_ETHERNET.e | :30 |
| IP : 192.168.1.98, Port=102 Setting: Use UDP (User Datagram Protocol) | I/F : | Ethernet | | ~ | Open Device Co | nnection Guide |
| | | | | | | |
| Interval of block pack (words) - 5 | IP : | 192.168.1.98, | Port=102 | | | Settings |
| Interval of block pack (words) · s v | IP : | | | | | Settings |
| Max. read-command size (words) : 20 | IÞ : | | | | | Settings |
| Max. read-command size (words): 20 | Inter | Use UDP (Use | ser Datagra | am Protocol) | | Settings |

3. Click "Settings...", input PLC IP address.

| IP Address Settings |
|--|
| IP address : 192 . 168 . 1 . 98 Accessible Nodes Port no. : 102 |
| Timeout (sec) : 1.0 v Turn around delay (ms) : 0 |
| Link type : pG v |
| Rack (0~7): 0 V CPU slot (1~31): 1 V |
| OK Cancel |



WEINTEK PLC Condition Check the PLC that is not connected to any PC. Click "Get Tag Info...". 4.

| | | | | Syste | m Param | eter Setti | ngs | | | |
|-----------------------|-----------|-----------------------------|----------|-------------|----------------|--------------|-----------|-----------------|------------|--------------|
| Cellular Data Network | | 802.1 | X (WiFi) | WiFi Ho | tspot | Time Sync. | /DST | e-Mail | FTP | |
| Device Model | | Gene | eral | System | Remote | Sec | curity | Extended Memory | | |
| Devio | ice list: | | | | | | | | <u>y</u> | /hat's my IP |
| | | Name | Location | Device Ty | pe | | Interface | I/F Protoce | ol Station | No. |
| ⊿ | | MI Local HMI | | | K/oMT2109X | | | - | 0 | |
| | Lo | Siemen… | Local | Siemens S | 7-1200/\$7-150 | 00 (Absolut… | Ethemet… | TCP/IP | N/A | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | New | / HMI | Ne | ew Device/S | st/st | D | elete | | Settings | |

Added Tag Manager that allows selecting the Siemens S7-1200/1500 PLC tags to be 5. imported.

| Tag Manager | × |
|--|-----|
| Find : | |
| E-VEC B-VBlocks H-VDDTs B-VTags | |
| Select all Discard all OK Can | cel |



WEINTEK Create an object and click read address "Settings..." 6.

| New Bit Lamp/Toggle Switch Object | × |
|---|---|
| General Security Shape Label | |
| Comment : | |
| Bit Lamp O Toggle Switch | |
| | - |
| Read address | |
| Device : Siemens S7-1200/S7-1500 V Settings | |
| Address : I V 0 | |
| □ Invert signal | |

7. In device select "S7-1200/1500" then select "user-defined tag".

| | | × |
|------------------|--|------|
| Device : | Siemens S7-1200/S7-1500 | ~ |
| Address type : | PLC.Blocks.Array.Bool_V1_0[0] | ~ |
| Address : | DBnBit-100000 | |
| Address format : | FFFFFDDDDo [range:0~6553599997, FFFFF (DB no.) : 0 ~ 65535, DDDD (b no.) : 0 ~ 9999, o (bit no.) : 0 ~ 7] | yte |
| | Index register | |
| Tag Library | OK Car | ncel |

8. Select PLC tag.

| Filter : | Use wildcards |
|---|---------------------------------|
| | |
| PLC.Blocks.Array.Bool_V1_0[0] | ^ |
| PLC.Blocks.Array.Bool_V1_0[1] | |
| PLC.Blocks.Array.Bool_V1_0[2] | |
| PLC.Blocks.Array.Bool_V1_0[3] | |
| PLC.Blocks.Array.Bool_V1_0[4] | |
| PLC.Blocks.Array.Bool_V1_0[5] | |
| PLC.Blocks.Array.Bool_V1_0[6] PLC.Blocks.Array.Bool_V1_1[0] | |
| PLC.Blocks.Array.Bool V1 1[1] | |
| PLC.Blocks.Array.Bool V1 1[2] | |
| PLC.Blocks.Array.Bool V1 1[3] | |
| PLC.Blocks.Array.Bool_V1_1[4] | |
| PLC.Blocks.Array.Bool_V1_1[5] | |
| PLC.Blocks.Array.Bool_V1_1[6] | |
| PLC.Blocks.Array.Bool_V1_1[7] | |
| PLC.Blocks.Array.Bool_V1_1[8] | |
| PLC.Blocks.Array.Bool_V1_1[9] | |
| PLC.Blocks.Array.Bool_V1_1[10] | |
| PLC.Blocks.Array.Bool_V1_1[11] PLC.Blocks.Array.Bool_V1_1[12] | |
| PLC.Blocks.Array.Bool V1 1[13] | |
| PLC.Blocks.Array.Bool V1 1[14] | |
| PLC.Blocks.Array.Bool V1 1[15] | |
| PLC.Blocks.Array.Bool V1 1[16] | |
| PLC.Blocks.Array.Bool V1 1[17] | |
| PLC.Blocks.Array.Bool_V1_1[18] | |
| PLC.Blocks.Array.Bool_V1_1[19] | |
| PLC.Blocks.Array.Bool_V1_1[20] | |
| PLC.Blocks.Array.Bool_V1_1[21] | |
| PLC.Blocks.Array.Bool_V1_1[22] | |
| PLC.Blocks.Array.Bool_V1_1[23] | |
| PLC.Blocks.Array.Bool_V1_1[24] PLC.Blocks.Array.Bool_V1_1[25] | |
| PLC.Blocks.Array.Bool_V1_1[25] PLC.Blocks.Array.Bool_V1_1[26] | ~ |
| | |
| When using wildcards, the asterisk (*) represents zero or more ch (?) represents a single character. | naracters and the question mark |
| | |
| OK Cancel | |
| | |



Wiring Diagram:

Ethernet cable:

