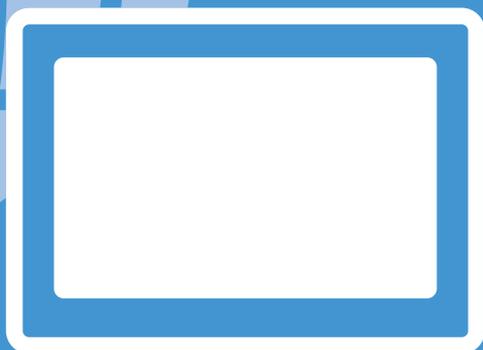# WEINTEK

Profession in Human Machine Interface
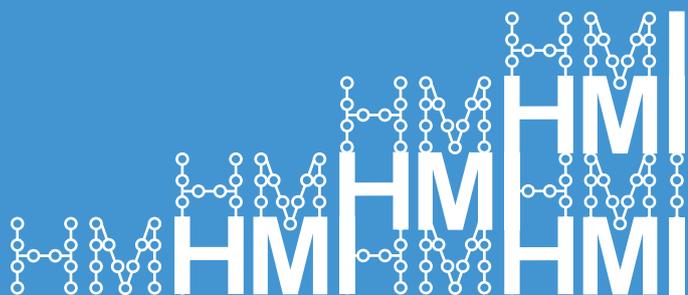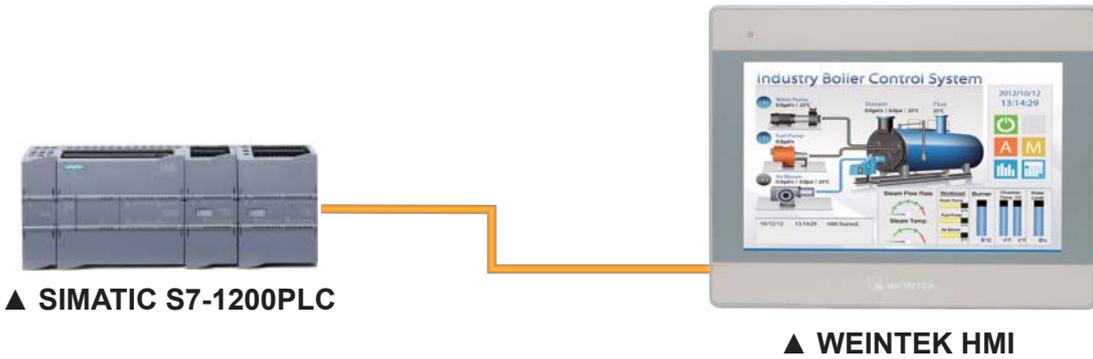
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The perfect combination of WEINTEK HMI and SIMATIC S7-1200

▲ SIMATIC S7-1200PLC

▲ WEINTEK HMI

The perfect combination of WEINTEK HMI and SIMATIC S7-1200
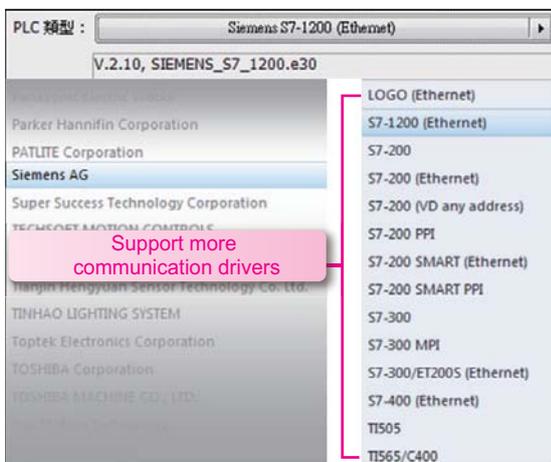
Introduction

The SIMATIC S7-1200, the successor of S7-200, is a new compact PLC which perfectly fits individual requirement in a wide variety of applications in the economical market of Industrial Automation and Control. Connecting with this powerful PLC which supports the majority of communication protocols such as PROFINET、TCP/IP native, ISO on TCP. The WEINTEK engineering software, EasyBuilder 8000/PRO, which provides fully integrated engineering environment for both WEINTEK HMI and S7-1200. With the seamless communication, the WEINTEK all Series of HMIs are perfectly communicating and performing all functions of the S7-1200 for advanced operations such as in-time monitoring the PLC and controlling the host machine. Thus, you can save valuable engineering time and money with this intuitive task-oriented and user-friendly engineering software.

▪ Simple steps to efficiently import the PLC Tag Table from the S7-1200 into the EasyBuilder 8000/PRO

The EasyBuilder 8000/PRO is fully integrated with the S7-1200. You can use the S7-1200 communication driver to connect with the S7-1200 and import the complete PLC Tag Table from the S7-1200. If you use HMI of other brands, then you must select other PLC communication drivers such as S7-300/400 to communicate with the S7-1200. Not only it is a waste of time referring the S7-1200 user manual to check the address meaning, but also you have to estimate the offset carefully in case of encountering some unexpected errors while accessing the used addresses.
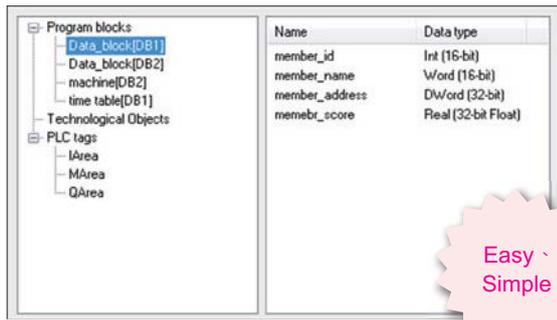
Step 1

▲ WEINTEK engineering software EB8000/PRO
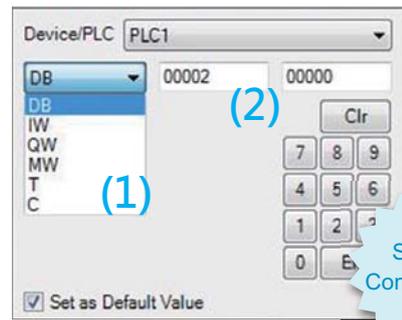(Select and use the S7-1200 communication driver)

▲ Others
(Select and only able to use the S7-300/400 communication driver)

Step 2

▲ **WEINTEK engineering software EB8000/PRO**

(completely import the S7-1200 Tag Table then access those tags)

Easy、Simple

▲ **Others**

Slow、Complicated
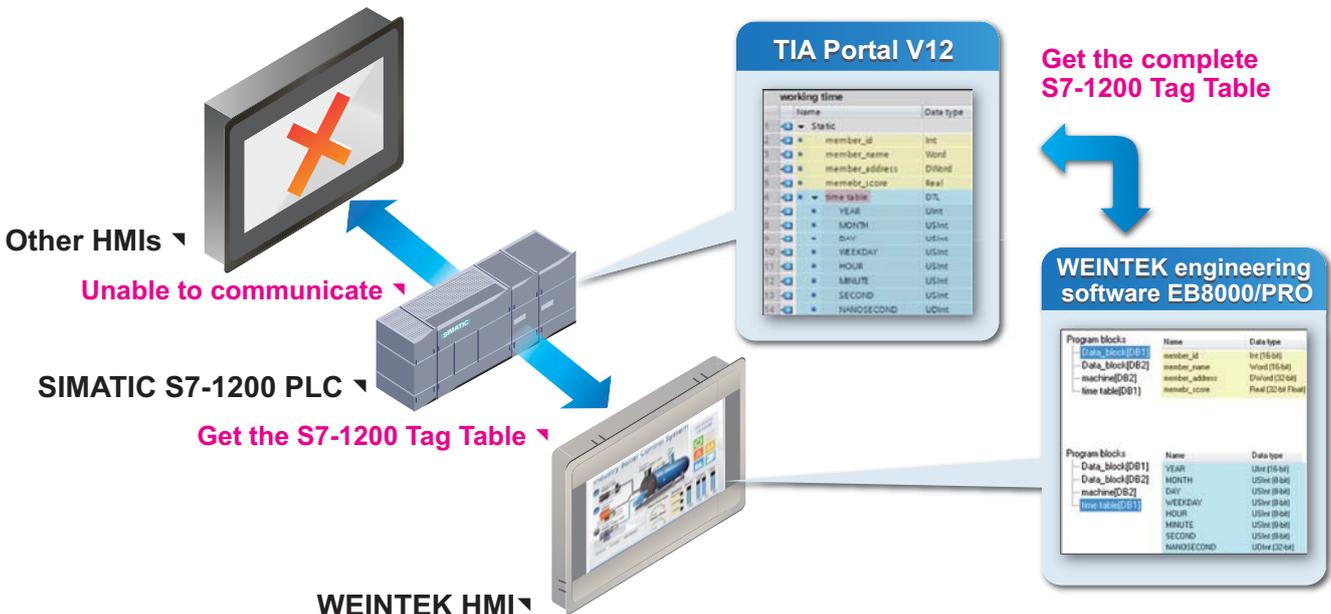
(1) Study the S7-1200 user manual to check the address meaning.
(2) Estimate the offset carefully in case of encountering some unexpected errors while accessing the used addresses.
(3) Access those defined-addresses.

■ **EasyBuilder 8000/PRO perfectly controls the S7-1200 PLC Tag Table**

The S7-1200 PLC Tag enables the addressing becomes smarter and more intuitive. Every PLC Tag associates with a meaningful tag name with data type, memory area, memory offset, and comment. Although the SIMATIC TIA Portal V12 version is not longer to support the S7-400 communication driver, however, by using the S7-1200 communication driver, the EasyBuilder 8000/PRO PLC can stably communicate with the S7-1200. Furthermore, you can directly access (read from and write to) the PLC Tags in the PLC "I", "M", and "Q" memory area, or tags that are represented in the Global Data Blocks. Those tags are stored in a tag table which facilitates control the PLC easier, faster and more cost-effective to transfer those important data to your HMI.

The EasyBuilder 8000/PRO can support more than 40 different data types provided by the S7-1200, included：BOOL, BYTE, WORD, DWORD, REAL, INT, SINT, USINT, UINT, UDINT, DINT…etc. Moreover, it supports the User-Defined Data Type (UDT) and the S7-1200 default data structure, for example, DTL which is a default data structure for the date and time. This powerful support provides you a variety of different data type options for advanced usage.

Other HMIs ◥

Unable to communicate ◥

SIMATIC S7-1200 PLC ◥

Get the S7-1200 Tag Table ◥

WEINTEK HMI◥

TIA Portal V12

Get the complete S7-1200 Tag Table

WEINTEK engineering software EB8000/PRO

1. Perfectly support the S7-1200 User-Defined Data Type (UDT)

▲ SIMATIC S7-1200

(User-Defined Data Type, UDT - machine)

▲ WEINTEK engineering software EB8000/PRO

(Get the complete the S7-1200 Tag Table)

EasyBuilder 8000/PRO completely gets the **working machine** static variables
and the **UDT - machine** data structure.

2. Perfectly support the S7-1200 default data structure

▲ SIMATIC S7-1200

(Default data structure - DTL)

▲ WEINTEK engineering software EB8000/PRO

(Get the complete the S7-1200 Tag Table)

EasyBuilder 8000/PRO completely gets the **working time** static variables
and the **DTL – time table** data structure.

3. Perfectly support the S7-1200 PLC Tag：[I]Input、[M]Bit Memory、[Q]Output

▲ SIMATIC S7-1200

(PLC Tag – [I]Input、[M]Bit Memory、[Q]Output)

▲ WEINTEK engineering software EB8000/PRO

(Get the complete the S7-1200 Tag Table)

EasyBuilder 8000/PRO completely gets the **PLC Tag** I、M、Q memory data structure.

■ **Conclusion**

The powerful WEINTEK EasyBuilder 8000/PRO is highly integrated with the SIMATIC S7-1200. Not only perfectly supports the S7-1200 communication driver, but also the EasyBuilder 8000/PRO can get the complete S7-1200 Tag Table. This feature greatly reduces the project development time and improves the programming efficiency. Based on the talent and brilliant technology, WEINTEK keeps leading the HMI market and pursuing excellence.