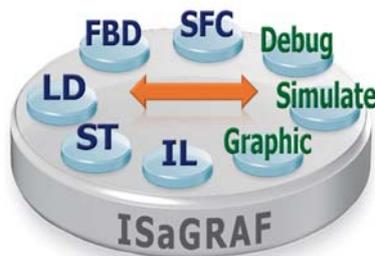




ISaGRAF is the most powerful SoftLogic package on the market. ISaGRAF is a PLC-like software running on Windows 95, 98, NT 2000, XP, Vista and Windows7. It supports IEC 61131-3 standard PLC programming languages - Quick Ladder (LD), Function Block Diagram (FBD), Sequential Function Chart (SFC), Structured Text (ST), Instruction List (IL) plus Flow Chart (FC) and can run the application generated by the workbench on any ISaGRAF PACs. Additionally, for the ultimate in power and flexibility, ISaGRAF supports offline simulation, online debugging, monitoring and control.



ISaGRAF software is composed of three features:

(1) All-in-one design environment :

ISaGRAF provides an all-in-one design environment - ISaGRAF Workbench, which can be installed in Windows 95/98/2000/XP, Windows7 (32-bit), Windows7 (64-bit, Professional Edition with XP mode; Home Edition with VM ware) users can fully use the workbench to design ISaGRAF PACs which in different types or different platforms. That is mean users just need to learn the single software, can run the application in different PACs (Programmable Automation Controller).

(2) Provide six PLC syntax :

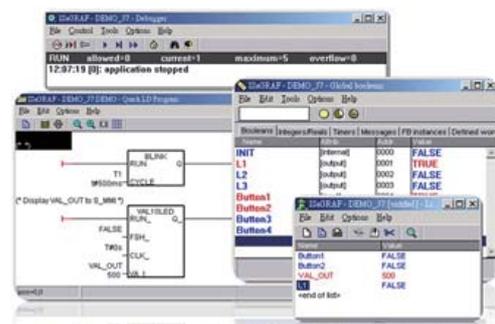
ISaGRAF is the software that supports five of IEC 61131-3 PLC Language, including Sequential Function Chart (SFC), Quick Ladder Diagram (LD), Function Block Diagram (FBD), Structured Text (ST) and Instruction List (IL) five language, it also supports sixth PLC language - Flow Chart (FC). This flexibility enables users to choose the language that best suits their knowledge, style and the nature of the application.

(3) Easily integrate to the HMI software and MMI :

ISaGRAF supports Modbus communication protocol; the user designed application can be easily connected to the various types of HMI software (e.g., eLogger) and MMI.

ISaGRAF Workbench Software Features:

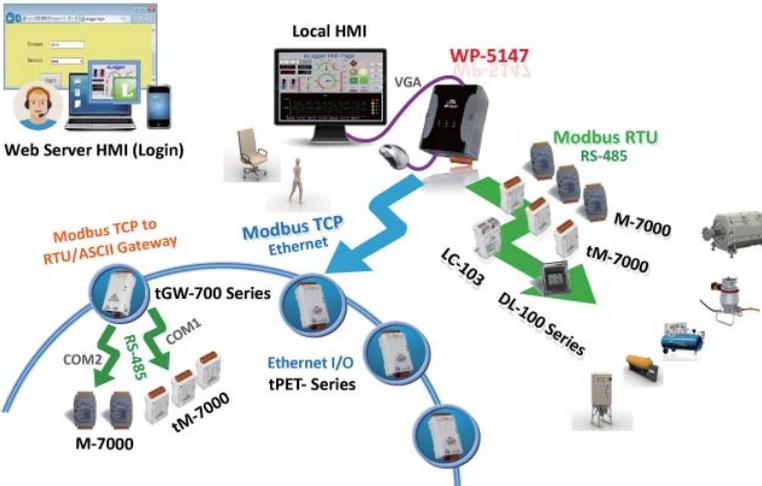
- Support IEC 61131-3 Standard Open PLC Languages + Flow Chart (FC):
 - Quick Ladder (LD)
 - Function Block Diagram (FBD)
 - Sequential Function Chart (SFC)
 - Instruction List (IL)
 - Structured Text (ST)
 - Flow Chart (FC)
- Uploading the program in the controller
- Online Debugging/Control/Monitoring
- Offline Simulation
- Lock & unlock I/O
- Online Change
- Auto-scan I/O
- Spotlight: Simple HMI
- Backup and Restoration of Applications
- Graphic Debugging Animation





ISaGRAF Solution Features:

- Support eLogger HMI
 - A free HMI software on the WinPAC, XPAC and ViewPAC
 - eLogger: support Web HMI



- Data-Recorder & Data-Logger
- Data Exchange
 - Ebus (Through Ethernet)
 - Fbus (Through RS-485)
 - PAC to PAC
- CAN/CANopen
 - Via I-7530 to connect CAN/CANopen devices
 - For connecting other CAN/CANopen meters, I/Os, devices
- FRnet I/O
- Motion Control:
 - For controlling server motors (P-command)
- PAC can send email to the internet
- SMS: Short Message Service
 - GSM modem
 - For reporting data and alarms to the operators
- Wireless Communication:
 - GPS, ZigBee & Radio
- Auto-report Acquisition/Control Data
- Redundant Solution:
 - Hot-swap/Ethernet
- Schedule-Control
- HART Solutions

- Modbus Master Protocol
 - Modbus RTU/ASCII Master
 - Modbus TCP/IP Master
 - For connecting other Modbus PLCs, meters, I/Os and devices
- Modbus Slave Protocol
 - Modbus RTU (RS-232/485/422) Slave
 - Modbus TCP/IP Slave
 - For connecting other PC/HMI/SCADA and touch HMI



Software Development: ISaGRAF V.S. C++ and VS.net 2008

| Item | ISaGRAF Ver. 3.xx | C++ | VS.net 2008 |
|---------------|---|-------------|-------------|
| Programming | Easy | Hard | Middle hard |
| Debug | Easy | Hard | Middle hard |
| SoftLogic | Yes | No | No |
| Program I/O | Just connect and play | Hard coding | Hard coding |
| Communication | Already built-in Modbus TCP, Modbus RTU, Modbus ASCII, DCON, SMS, e-mail, TCP, UDP, ... | Hard coding | Hard coding |

Ordering Information

| ISaGRAF Development Software | |
|---|---|
| ISaGRAF-256 | ISaGRAF Workbench Software Ver.3 (256 I/O Tags) with One USB Dongle |
| ISaGRAF-32 | ISaGRAF Workbench Software Ver.3 (32 I/O Tags) |
| Note: No upgrade service from ISaGRAF-32 to ISaGRAF-256 is available. (ISaGRAF-32 can be used to control more than 32 I/O tags. Please refer to Ch. 3.4 of the ISaGRAF User Manual.) | |