

ISaGRAF

PAC/SoftPLC Development Kit

ISaGRAF is a powerful SoftLogic package on the industrial market. **ISaGRAF Workbench** is a PLC-like development software running on Windows 95/98/NT/2000/XP/Vista/7 and its **ISaGRAF Runtime** application programs can run on any **ISaGRAF PACs** such as WP-8xx7, WP-5xx7, VP-2xx7, XP-8xx7-CE6, iP-8xx7, μ PAC-7186EG etc. Using ISaGRAF PACs, the control/monitor systems can easily implement industrial level of real-time data acquisition and data/devices control via wiring or wireless network in various industries.

Application area: data acquisition system, distributed control system, factory and building automation, motor control, remote I/O system, wireless control system...

ISaGRAF Workbench Features:

- Support IEC 61131-3 Standard Open PLC Languages + Flow Chart (FC) :
 - Quick Ladder (LD)
 - Function Block Diagram (FBD)
 - Sequential Function Chart (SFC)
 - Structured Text (ST)
 - Instruction List (IL)
 - Flow Chart (FC)
- On-line debugging/control/monitor
- Off-line simulation
- On-line change (For WP-8xx7, VP-2xx7, XP-8xx7 only)
- Spotlight: Simple graphic HMI
- Auto-Scan I/O
- Lock & unlock I/O
- Uploading the program in the PAC



ISaGRAF Solution Features:

- Support Soft-GRAF HMI
 - A free HMI software on the WinPAC, XPAC and ViewPAC
 - Soft-GRAF Studio: simple HMI screen editing (Mouse drag & drop)
- Modbus Master Protocol
 - Modbus RTU, ASCII, RS-232/485/422 Master
 - Modbus TCP 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
- 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
- Construction Stress Monitoring:
 - VW sensor and Carlson strain gauge inputs solutions
 - Bridge/dam/building... monitor & control



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-E	ISaGRAF Workbench Software Ver.3 (256 I/O Tags) with One Application Book (English version) and one USB Dongle
ISaGRAF-256-C	ISaGRAF Workbench Software Ver.3 (256 I/O Tags) with One Application Book (Chinese version) and one USB Dongle
ISaGRAF-32-E	ISaGRAF Workbench Software Ver.3 (32 I/O Tags) with One Application Book (English version)
ISaGRAF-32-C	ISaGRAF Workbench Software Ver.3 (32 I/O Tags) with One Application Book (Chinese version)
Note: No upgrade service from ISaGRAF-32 to ISaGRAF-256 (Using ISaGRAF-32 can control more than 32 I/O tags. Please refer to ISaGRAF User's Manual Ch. 3.4)	