ICP DAS High Quality,Industrial Data Acqisition and Control Products
I-8000 I-7000 I-7188 AD/DA Card others HO

Wanna see an ISaGRAF presentation(3MB)?

New Driver For I-8xx7, 7188EG/XG

Download ISaGRAF 3.47 Demo Version	(English,3.4M
Download ISaGRAF Quick Start Manual	(English,1.9M
Download ISaGRAF Quick Start Manual	(Chinese,2.1M
Download ISaGRAF User's Manual	(English ,15.3
Download ISaGRAF User's Manual	(Chinese,16M

What is ISaGRAF?

What is ISaGRAF ?

ISaGRAF is based on the only internationally recognized industrial automation control language, the IEC61131- fully support all five of the PLC languages : Ladder Diagram (LD), Function Block Diagram (FBD), Sequential Fun Chart (SFC), Structured Text (ST), and Instruction List (IL) plus Flow Chart (FC).

I-7188XG to be a Modbus serial converter of I-7000 & I-87K series I/O modules.
I-7188EG to be a Modbus serial & TCP/IP converter of I-7000 & I-87K series I/O modules.
How to use?

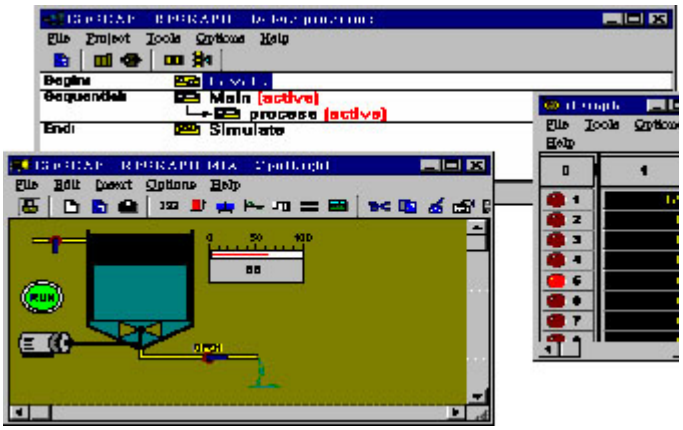
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English	ISaGRAF embedded controllers: I-8417/8817/8437/8837, I-7188EG & I-7188XG
Chinese	ISaGRAF embedded controllers: I-8417/8817/8437/8837, I-7188EG & I-7188XG

ISaGRAF and I-8417/8817/8437/8837 , I-7188EG , I-7188XG controllers

The ISaGRAF application can be easily applied to the **I-8417 / 8817 / 8437 / 8837** and the **I-7188EG/XG** embedded contro When adding ISaGRAF programming, there are three distinct advantages. The first is that the PLC language is easy to de Instead of C language, ISaGRAF supports all five IEC61131-3 languages plus Flow Chart language (FC).

The second advantage is the powerful communication ability. There are 4 communication ports on the I-84X7 / 88X7 controllers. COM1 is a simple RS232 device that is linked to PC running ISaGRAF Workbench. It supports Modbus protocol. For the I-8x17 controller, COM2 is a 2-wire RS485 device that is constructed as a Modbus network system for up to 255 controllers. For the I-8x37 controller, COM2 is a ethernet port supporting Modbus TCP/IP protocol that takes your control system to the Internet world. COM3 is a RS232/RS485 device. It can be user-designed or can be constructed as a RS485 Fbus network so that each I-84X7 / 88X7 controller can access the data from other I-8xx7 controllers on the same Fbus network, therefore becoming a Distributed Control System. COM4 is a RS232 device that can be user-designed.



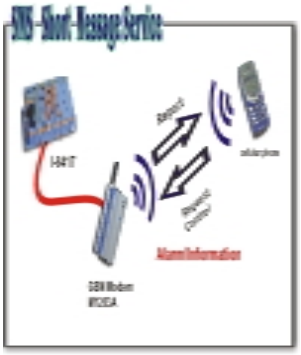


The I-7000 and I-87K series are also supported by the I-8xx7 and I-7188EG/XG controllers. Through the RS485 port of the I-8xx7 (COM3) and I-7188EG/XG (COM2) contro I-7000 / I-87K series modules can be used as remote I/Os, controlled by the I-8xx7 and I-7188EG/XG.

The third advantage is that integration with HMI software and MMI become easy and powerful when the Modbus protocol. Iconics, Intouch, FIX, Wizcon, Citect, Labview, Lablink, Modbus OPC server ... a examples of HMI software. MMI is similar to the Touch 506/509/510 touch panel or any hardware or soft

that support Modbus protocol.

More Features

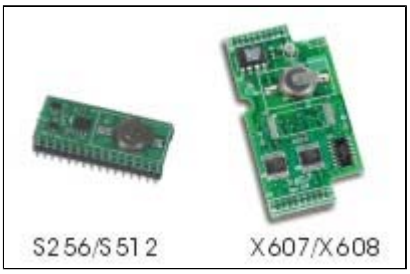


SMS:Short Message Service The I-8417/8817/8437/8837, I-7188EG & I-7188XG controller can integrate with a GSM Modem to support SMS: Short Message Service. This allows user to request information or control something from his own cellular phone to the ISaGRAF controller. Beside, the controller can also send information and alarms to user's cellular phone.

- **How to use ?**

- **Data log :** data, date & time can be stored at S256/S512 for I-8xx7, while X607/X608 for I-7188EG/XG, and then PC can load these data via RS232/RS485, ethernet & Modem.

  How to use ?



- **MMICON: ICP DAS's Man Machine Interface**

  The I-8417/8817/8437/8837 & I-7188EG/XG support the ICP DAS's MMICON to become their Man Machine Interface. The MMICON is featured with a 240 x 64 dot LCD and a 4 x 4 Keyboard. User can use it to display picture, string, integer, float, and input a character, string, integer and float. All control logic is written in ISaGRAF program.



  How to use ?

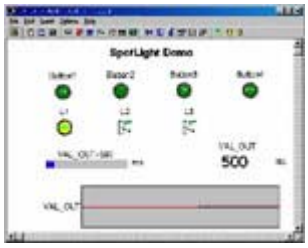
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- **Auto-scan I/O**

  Auto-scan I/O is a ICP DAS's added-on tools for I-8417/8817/8437/8837 to auto-scan I/O boards and auto-declare variables for every found I/O channel.

  See more about Auto-scan I/O ...



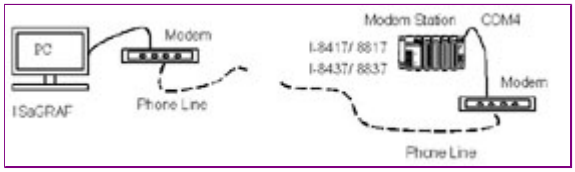
- **Spotlight : Simple HMI**

  Spotlight is a simple HMI coming with ISaGRAF which allows user to build **Boolean Icon, Bar Graph, Trend Curve, Value Text, Bitmap Picture** to make application more friendly.

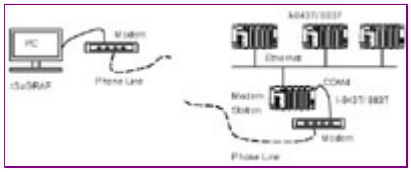
- **Remotely Monitoring & Download Via Modem**

  COM4 of the I-8417/8817/8437/8837 controller supports full modem signals. It has embedded the Modem_Link protoco remotely download and monitoring. All you have to do is to dial a phone call from your PC to the faraway controller to monitor every information you want.

To one controller :

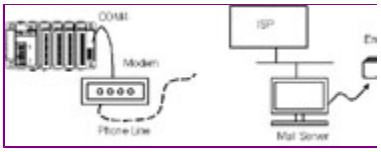


To some controllers :



- **Sending Emails**

  COM4 of The I-8417/8817/8437/8837 controller supports full modem signals. It has embedded an email protocol. You can send emails from the controller whatever something happen, for example, alarm, or to report the daily information.



- **And More about I-8417/8817/8437/8837 , I-7188EG , I-7188XG controller**

  I-8417/8817/8437/8837 : ISaGRAF Embedded Controller
  I-7188EG : ISaGRAF Embedded Controller
  I-7188XG : ISaGRAF Embedded Controller

ISaGRAF Overview

ISaGRAF is the most powerful Soft Logic package on the market. ISaGRAF software is composed of two parts:

- The workbench provides the PLC programmer a complete programming environment.
- The target runs the application generated by the workbench on any hardware such as the I-8xx7 series.

ISaGRAF Workbench

The ISaGRAF workbench, which is a Windows 95, 98, NT or Windows 2000 PC compatible, runs the ISaGRAF workbench software. The ISaGRAF workbench software includes:

Graphical Editors for programming:

- Quick Ladder Diagram
- Function Block Diagram
- Sequential Function Chart
- Flow Chart

Text Editors for programming:

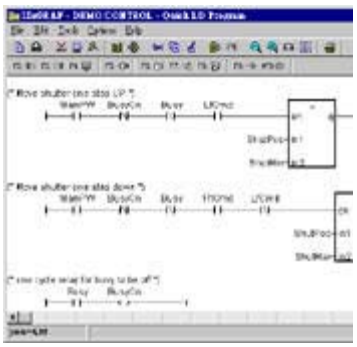
- Instruction List
- Structured Text

Powerful tools for:

- Application download
- On-line debugger and control
- Simulation
- Cross referencing
- Project management
- Document generation
- Backup and Restoration of applications
- Graphic debugging animation

Quick LD Editor

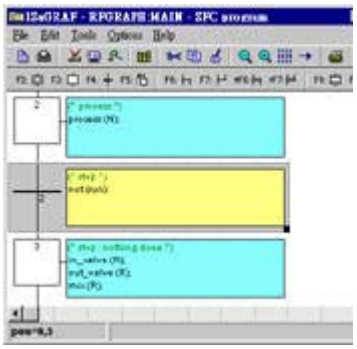
The Ladder Diagram (LD) is one of the most familiar methods of representing logical equations and simple actions. Furthermore contacts representing input arguments and coils representing output results are utilized.
The ISaGRAF Quick LD Editor offers you the best compromise between high level graphic capabilities and easy to use keyboard driven programming.
With the ISaGRAF graphic editing tools the user can mix LD and FBD programming on the same chart. Any function or function block of the library can be called from this editor.



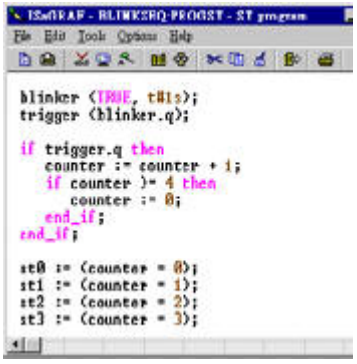


FBD Editor
The Function Block Diagram (FBD) is a graphics-based language which allows the user to build complex procedures by taking existing function blocks from the ISaGRAF library, and wiring them together on the screen. ISaGRAF includes a library with more than 60 standard blocks ready to use. And others are available from each target's blocks. For ex. The ICP 8xx7 series.

SFC Editor
The Sequential Function Chart (SFC) divides the process cycle into a number of well-defined steps, separated by transitions. SFC is the core language of the IEC61131-3 standard. The other languages are used to describe the actions performed within the steps and the logical conditions for the transitions. Parallel processes can be easily described using SFC.



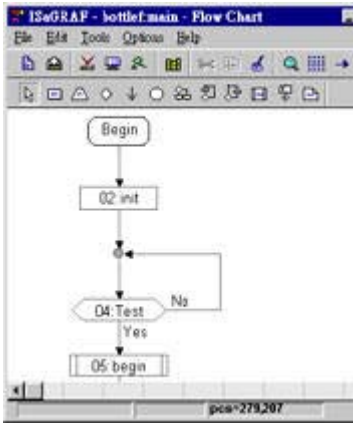
Structured Text Editor
Structured Text (ST) is a high level structured language with a syntax similar to Pascal but more intuitive to the automation engineer. This language is mainly used to implement complex procedures that cannot be easily expressed with graphics-based languages (IF / THEN / ELSE, FOR, WHILE...).



Instruction List Editor
Instruction List (IL) is a low-level language, similar to the simple- text PLC languages. In August
1996, the ISaGRAF IL editor received the certificate of PLCopen compliance with a class-rating of IEC61131-3.



Flow Chart Editor
Flow Chart (FC) is a non-IEC61131-3 language. It was added into ISaGRAF in 1998 beginning with Version 3.3. FC is a graphics-based language. It combines "test" , "action" , "flow", and other mechanisms to perform a control process



Ordering Informatio

ISaGRAF-256-E	ISaGRAF Workbench Software, Up to 256 I/O Tags + one ISaGRAF Book-E
ISaGRAF-256-C	ISaGRAF Workbench Software, Up to 256 I/O Tags + one ISaGRAF Book-C
ISaGRAF Book-E	ISaGRAF Application Book (English)
ISaGRAF Book-C	ISaGRAF Application Book (Chinese)
IKIT-20	I-8417 Learning Kit, I-8417 + I-8055 + ISaGRAF-256-E (or ISaGRAF-256-C)
IKIT-21	I-8437 Learning Kit, I-8437 + I-8055 + I-87017 + ISaGRAF-256-E (or ISaGRAF-256-C)

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