ISaGRAF XPAC Motion Control
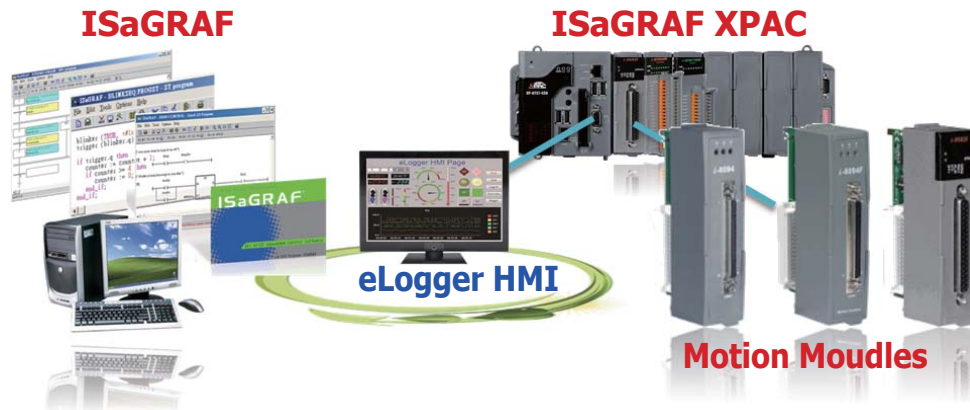
ISaGRAF   **ISaGRAF XPAC**

eLogger HMI

Motion Moudles

Introduction

As a "Navigator of PAC", ICP DAS provides a new PAC motion control solution - ISaGRAF XPAC Motion Control Solution. With the supporting of the ISaGRAF development software plus eLogger HMI, the solution using ISaGRAF XPAC plus the I-8000 motion control modules makes users easily design a professional and user-friendly system with high effective integration in the motion controls, logic controls and I/O device controls.

Features

■ ISaGRAF provides IEC 61131-3 standard PLC open Syntax:
 The motion control design is easy and professional

■ Using XPAC is more effective than using PLC :
 Using XPAC for motion control is more effective to integrate motion controls, logic controls and I/O controls

■ Support free eLogger HMI designer :
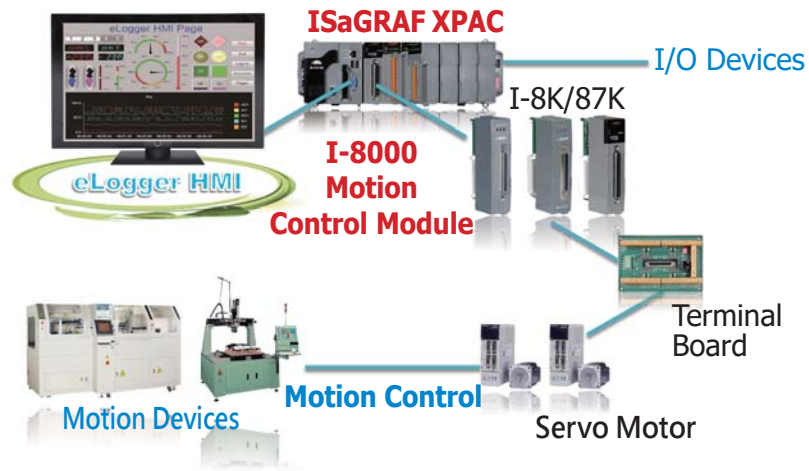 Design the control logic & HMI all-in-one.

Motion Functions

■ Independent 4-axis motion control
■ Support hand wheel and jog functions
■ 2/3-axis linear interpolation function
■ 2-axis circular interpolation function
■ Programmable T/S-curve acceleration and deceleration
■ A maximum of 4M pps pulse output rate for each axis
■ Pulse output types: CW/CCW or PULSE/DIR
■ 32-bit encoder counter for each axis
■ Encoder pulse input types: A/B phase or Up/Down
■ Programmable automatic homing for each axis
■ Position comparison management and software limits
■ Expandable remote I/O:
■ 28 DI and 128 DO via two-wired FRnet interface
■ Require low CPU loading in motion function process
■ Several motion modules can be used in one XPAC and other I/O statuses can be monitored at the same time

Main Specifications

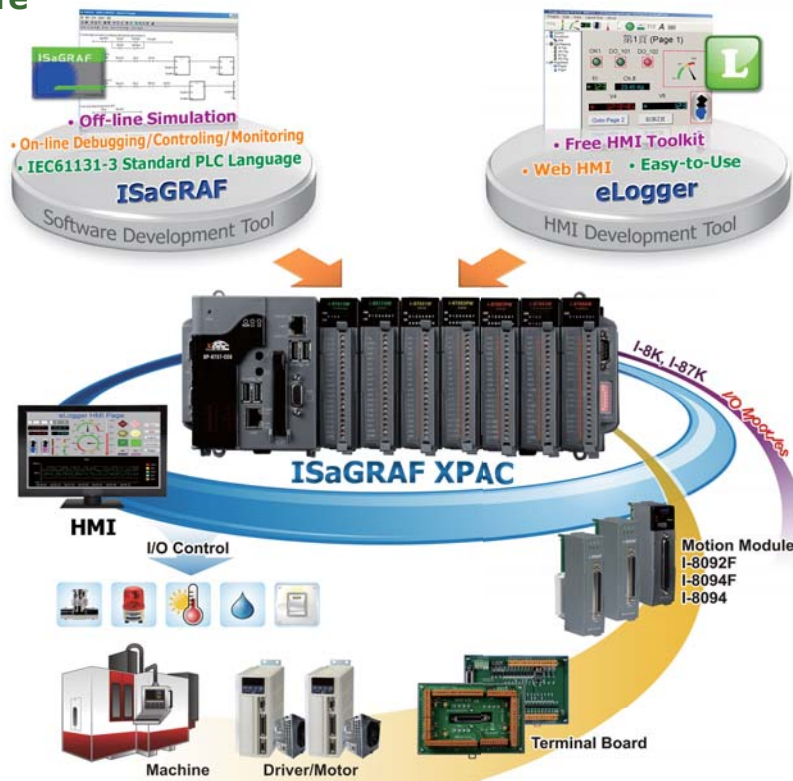| ISaGRAF XPAC	XP-8137-CE6	XP-8337-CE6	XP-8737-CE6
Operating System	Windows CE 6.0		
Development Software	ISaGRAF Ver. 3 : IEC 61131-3 standard. LD, ST, FBD, SFC, IL & FC. Support eLogger to design HMI.		
CPU	x86 CPU, 1.0 GHz, dual-core		
Dual Watchdog Timers	Yes		
Real Time Clock (RTC)	Provide second, minute, hour, date, day of week, month, year		
Flash	32 GB		
System Memory	2 GB DDR3		
VGA Resolution	1024 x 768, 800 x 600, 640 x480		
Ethernet Port	2		
RS-232/RS-485 Port	Max. 4 (COM2 ~ COM5)		
I/O Slot	1	3	7
Power Supply	Input Range: +10 ~ +30 VDC (unregulated); Isolated : 1 kV		
Power Consumption	16.6 W	16.8 W	18 W
Environment	Operating Temperature : -25 ~ +75 °C ; Humidity : 10 ~ 90 % RH		

Motion Module	I-8092F (2-axis)	I-8094F/I-8094 (4-axis)
Encoder Rate	4 MHz, 32-bit Encoder Counter. Encoder Interface: A/B pulse, Up/Down	
Pulse Output Rate	Max. 4 MHz , 32-bit. Pulse Output Mode: CW/CW, PULSE/DIR	
I/O Isolation	2500 Vrms optical isolation (with terminal board)	
Terminal Board	DN-8237 series	DN-8468 series

Motion Application

Development Software

- The SoftLogic Solution:
  ISaGRAF
- Free HMI Designer:
  eLogger

Ordering Information

ISaGRAF-256	ISaGRAF Workbench Software Ver.3 (256 I/O Tags) with one USB Dongle
ISaGRAF-32	ISaGRAF Workbench Software Ver.3 (256 I/O Tags)
XP-8137-CE6 CR	1 I/O slots WinCE 6.0 Based ISaGRAF XPAC (OS: Multi-Language version) (RoHS)
XP-8337-CE6 CR	3 I/O slots WinCE 6.0 Based ISaGRAF XPAC (OS: Multi-Language version) (RoHS)
XP-8737-CE6 CR	7 I/O slots WinCE 6.0 Based ISaGRAF XPAC (OS: Multi-Language version) (RoHS)
I-8092F-G	High-speed 2-axis Motion Control Module with FRnet Master
I-8094F-G / I-8094-G	High-speed 4-axis Motion Control Module (I-8094F with FRnet Master)
Terminal Board for I-8092	DN-8237 Series: Photo-Isolated Terminal Board for ICP DAS 2-axis Stepper/Servo Motion Controller
Terminal Board for I-8094	DN-8468 Series: Photo-Isolated Terminal Board for ICP DAS 4-axis Stepper/Servo Motion Controller
Cables for Terminal Board	CA-26-xxx-15/30/50 (For DN-8237UB/DN-8468UB, xxx: MJ3/YSV/PA4/DAA2/DAB2/FFW/TTA) CA-SCSI50-D1/3/5 (For DN-8237DB/DN-8468DB) CA-SCSI50-PY1/3/5 (For DN-8237YB/DN-8468YB & DN-8237PB/DN-8468PB)
I-8K Motion Control Module	http://www.icpdas.com/root/product/solutions/remote_io/rs-485/i-8k_i-87k/i-8k_i-87k_motion.html
ISaGRAF XP I/O Support	http://www.icpdas.com/products/PAC/xpac/xpc-io_support_list-test.htm