

# KinCon

## 8045/8345/8745

KW-software SoftLogic PAC








- Built-in Windows CE.net real time system, Intel Strong ARM CPU
- Supports KW-MULTIPROG 4.0 IEC61131 design system
- Build-in KW-ProConOS SoftLogic
- Supports KW-ProVisIT2.3 machine visualization
- Supports Modbus TCP/IP Master protocol
- Supports Dual Ethernet ports



# Specifications & Ordering Information

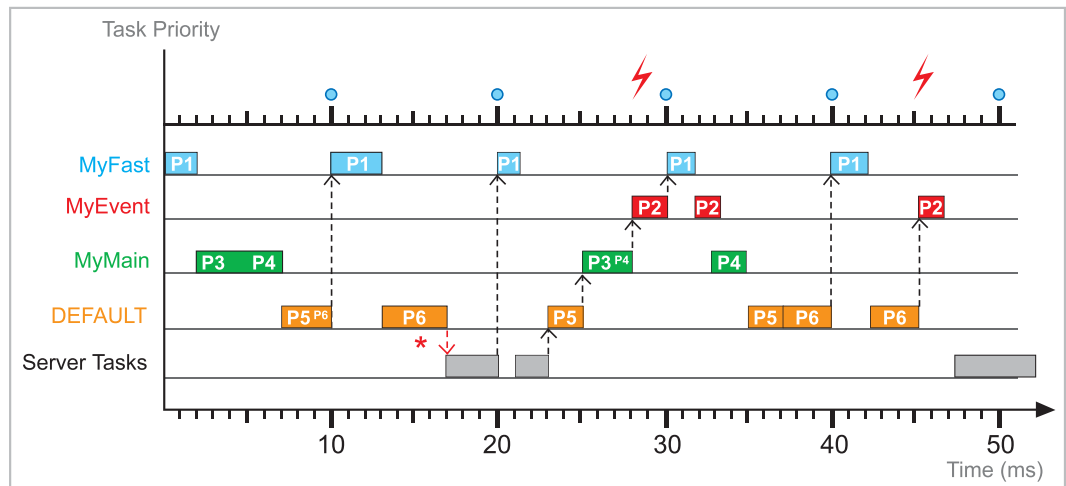


	S-256 / S-512	256K / 512Kbytes battery backup SRAM 
	MULTIPROG 4.0	KW-software MULTIPROG 4.0 IEC 61131 programming system, provide 6 PLC languages
	OPC-Server 2.0	KW-software OPC-Server 2.0 · OPC software
	ProVisIT 2.3	KW-software ProVisIT 2.3 machine visualization

Serial ports (2)	COM3	RS-485, 2-wire. Speed: 115200 bps max, D+, D-
	Ethernet	2 10M/100M bps Base T Ethernet ports
Counter	Serial D/I counter	Counter input: 100Hz max. Counter value: 0 to 65535 (6 bit) Optional serial I-87K D/I boards: I-87040,87051,87052,87053,87054,87055,87058,87063
	Remote D/I counter	All remote I-7000 & I-87K D/I modules support counters. 100Hz max. Value: 0 to 65535
	High speed counter	I-87082: 100kHz max. 32 bit I-8080: 450kHz. 32 bit
Protocols	Modbus RTU slave protocol	One of COM2 or COM3 supports Modbus RTU slave (serial) protocol for KW connecting to PC, software and monitor.(available soon)
	Modbus TCP/IP protocol	Ethernet port supports Modbus TCP/IP slave protocol for KW connecting to PC, software and monitor.
	I-7000 & I-87K remote I/O	COM3 supports I-7000 RS-485 remote I/O modules & I-87K RS-485 remote I/O Units (I-87K base + I-87xxx serial I/O boards). max: 255 RS-485 remote I/O for one controller
	M-7000 series Modbus I/O	COM3 & COM5~COM14(if I-8142/8142i/8144 are plugged) support M-7000 series Modbus RS-485 remote I/O modules. Max: 10 RS-485 ports, 247 M-7000 modules per port.
	Modbus master protocol (multi-port)	COM2, COM3, or COM5~COM14(if I-8112/8114/8142/8142i/8144 are plugged) supports multi-port of Modbus RTU/ASCII master protocol to connect to other Modbus slave devices. (available soon)
	User defined protocol	User can write his own protocol applied at COM2, COM3 & COM5~COM14 (if multi-serial port boards are plugged)
Battery backup SRAM	S-256 / S-512	W-8345/8745 support S-256:256K & S-512:512K bytes battery backup SRAM to retain data (retain up to 4096 variables). Data can be uploaded from Ethernet port or COM2/COM3 of PC after been saved in S256/S512, or can be download from PC to S256/S512. (WinCon new back-plane, ver. 3-slot:2.6, 7-slot:2.8). Note: W-8045 doesn't supports S-256/S-512
File access	CF card	The Compact Flash card can be used for storing runtime data & any controller setting with file operation. The CF card size default is 128M bytes.
Dimensions	Size (L x H x D)	W-8045: 114x110x90, W-8345: 229x110x90, W-8745: 354x110x90 unit: mm



- **Built-in Windows CE.net real time system, Intel Strong ARM CPU,** 206MHz, 64MB SDRAM, 32MB FM, 16KB EEPROM.
- **Supports KW-MULTIPROG 4.0 IEC61131 design system,** which has 32 bit interface and supports distributed control system. It includes the languages: IL, ST, LD, FBD, SFC & MSFC with integrated diagnosis. Hundreds of function blocks were built-in for various application designing.
- **With logic analyzer,** user can analyze the logic of procedure, generate a curve-diagraph by recording variables, and pre-check the result before leading in the procedure.
- **Build-in KW-ProConOS SoftLogic, does support fast multitasking,** interrupts and up to 16 PLC tasks preemptivescheduling. Each PLC task can be set a watchdog for supervision. Incase of a realtime violation an additional associated user program can be executed.



- **Online changes** With modification of program parts while the PLC is running. The features of multitasking, multilingual, multi-user make KW-WinCon suitable for PID, temperature control, remote IO, communication...various industrial applications.



- **Supports retain variables & battery backup memory.**

User can optionally add S-256/S-512 to retain more data.

- **Default has one COM2:RS-232 & one COM3:RS-485.**

The serial communication port can be more by adding extra I-8112/8114/8142i/8144 multi-serial boards. (RS-232, RS-485 or RS-422, up to 10 ports)

- **Supports Modbus TCP/IP Master protocol.**

Up to 8 PC/HMI /OPC Server & touch panel can connect with COM2(or COM3) & Ethernet port via TCP/IP at the same time.

- **Supports Multi RS-485 ports**

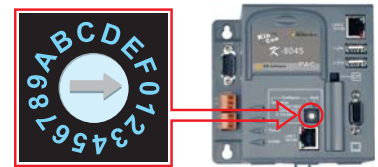
to connect to M-7000 series Modbus Remote I/O modules. I-8K & I-87K D/I/O boards have LED to display I/O status. COM3 supports I-7000 & I-87K remote IO.

- **Supports serial port read/write function blocks**

to communicate with various serial devices.

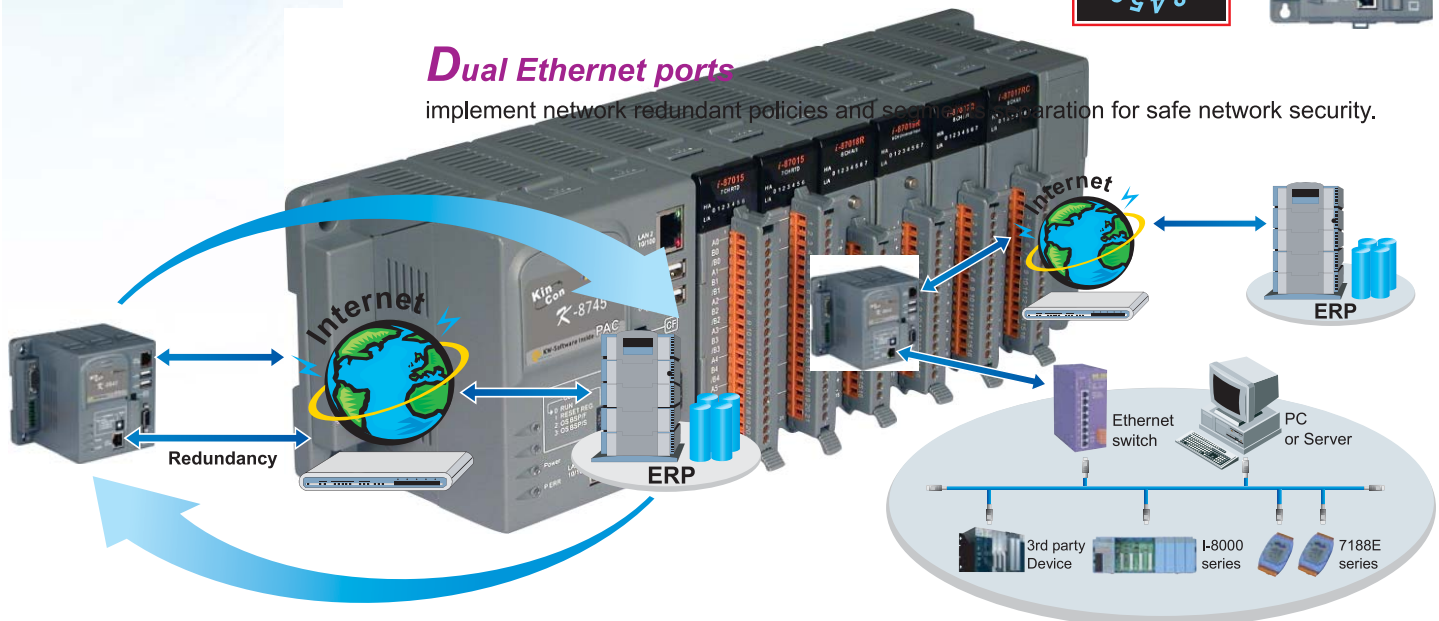
- **Built-in 1 Rotary switch.**

Provide 16 modes for multitasking switching. 8 of 16 modes are provided for user's definition



### Dual Ethernet ports

implement network redundant policies and security separation for safe network security.



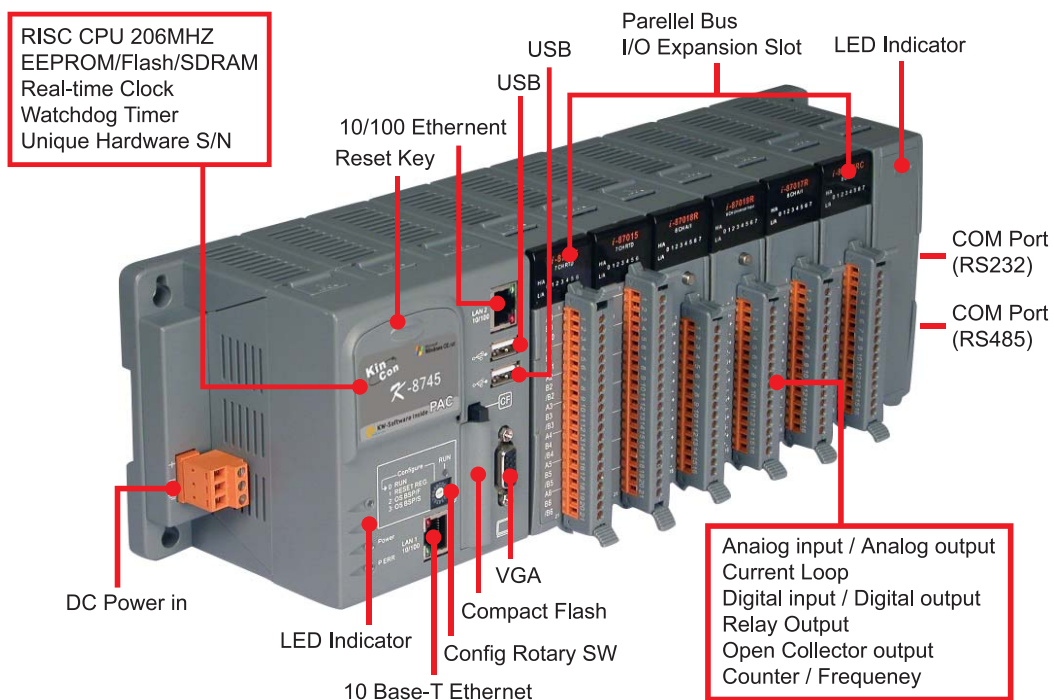


- **Supports KW-ProVisIT2.3 machine visualization,** which features with embedding of other ActiveX control & VB script programming, MULTIPROG variables browsing, libraries and hierarchic mapping of screens, and online language switching. With Touch panel (GA-700YY-UOM/USB), it's easy & fast to work out a perfect HMI automatic system.







- **More IO selections.** K-8045 with 0 I/O-slot supports RS-485 Remote I/O Units; K-8345/8745 with 3 / 7 I/O-slots support I-8K & I-87K I/O boards. There are more than 50 selections including DI, DO, AI, AO, Relay, Counter, frequency, Thermo-couple, RTD, thermistor, Motion... More I/O can be expanded by I-7000/I-87K series remote I/O modules or M-7000 series I/O via RS-485 port.

- **More interface ports.** 1 VGA port for monitor, dual USB ports for USB mouse, HD etc., dual 10/100m Ethernet ports for higher network performance, 1CF slot for CF card, and 1 Rotary switch for multitasking switching. It is easy, familiar to everyone with its PC-like Windows environment.





## Ordering Information

	K-8045	0-slot KW-WinCon PAC (W-8045 doesn't support S-256 / S-512)
	K-8345	3-slot KW-WinCon PAC
	K-8745	7-slot KW-WinCon PAC
	GA-700YY-UOM / USB	7" TFT RS-232 / USB LCD Monitor w/ VGA & Touch Screen

## Specifications of K-8045/8345/8745

Development software	KW-MULTIPROG4.0	KW-Software IEC61131 PLC programming system, Language: LD, ST, IL, FBD, SFC, MSFC
	KW-OPC-Server 2.0	KW-software OPC software
	KW-ProVisIT 2.3	KW-software machine visualization
	Non-KW-software	Options: Microsoft EVC++4.0 or VS.NET 2003 (VB.NET, C#.NET)
Power supply	Power requirements	+10 ~ +30 VDC (unregulated), 20W (when IO slots are empty)
	Protection	Built-in power protection & network protection circuit
General environment	Temperature	Operating: -25°C ~ +75°C ; Storage: -35°C ~ +85°C
	Humidity	5 ~ 90 % (non-condensed)
System	CPU	Intel Strong ARM CPU, 206MHz
	OS	Windows CE.NET 4.1
	Watchdog timer	Yes
	Real time clock	read/write hour, minute, second, date of week, date of month, month & year
	SDRAM	64M bytes
	Flash Memory	32M bytes
	Compact Flash Card	1 Compact Flash slot, default with 128M bytes of CF card
	EEPROM	16K bytes, retention > 100 years, 1,000,000 erase/write cycles
	I/O slots	W-8045: 0, W-8345: 3, W-8745: 7, I/O slots accept I-8K parallel & I-87K serial I/O boards
	VGA port	1 VGA port, resolution: 320x240x16 to 1024x768x16, default is 640x480x16
	USB port	2 USB 1.1 Host port, for USB drive, mouse...
	Rotary switch	1 rotary switch & 1 'RUN' LED. Provide 16 modes for normal, clear registry, OS update, PLC tasks... Modes. 8 of 16 modes are provided for user's definition.
	Reset button & LED	1 reset button & 1 power LED
	Unique serial number	64-bit hardware unique serial number
NET ID	From 1 to 255, set by software	
Serial ports (1)	COM1	Internal use for I-87K serial I/O boards of W-8345/8745. W-8045 has no COM1
	COM2	RS-232, 9-Pin. Speed: 115200 bps max



**T**he ICP DAS KinCon (KinCon-8045/8345/8745) is a WinCE based SoftLogic PAC, with Windows CE OS and popular, flexible programming software: KW-software, Microsoft EVC++ and VS.NET 2003(VB.NET & C#.NET).

KinCon supports KW-software, with multitasking & online change features, which can fast design multitasking real time PLC control system, and online change PLC tasking. These features let the world leading automation companies (such as ABB, Fuji, Hitachi, Mitsubishi, Kuka...) rely on it.

KinCon supports ProVisIT machine visualization, which is a low cost alternative to HMI and VB programming. It features with hierarchic mapping of screens and available in Traditional/ Simplified Chinese, English, German...language. Conjugating with Touch panel (GA-700YY-UOM/USB), it's a complete and integrated HMI automation system

<http://www.icpdas.com>



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