



Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

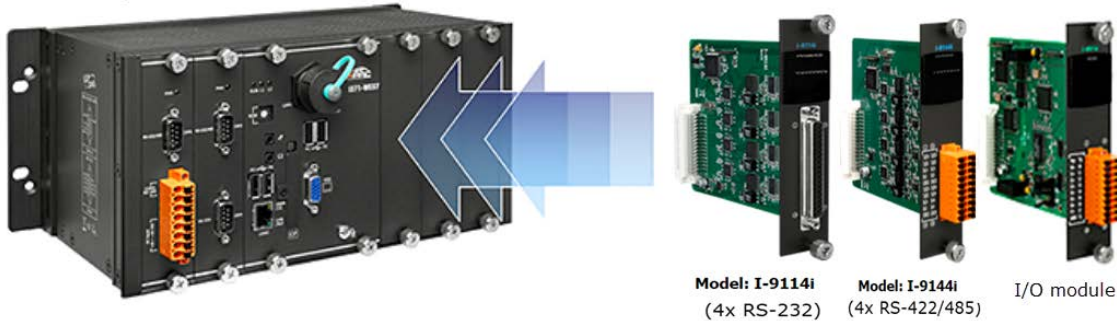
### Rugged Industrial Controller



Automation controllers are used for controlling applications in many industries. Not all environments are alike. Industrial controllers are standardly mounted inside of an enclosure to avoid environmental contamination. Some applications are more rugged.

Programmable Automation Controllers (PAC's) deployed in environments where there is heavy vibration require more durable components and enclosures. For these types of applications, we have developed our 9000 series PAC. The WP-9000 series have the same function as our standard automation controller but are in a rugged metal enclosure and utilize our I-9000 I/O modules which are able to be securely screwed into the metal housing to minimize the effects of vibration.

#### **XP-9000/WP-9000/LX-9000/LP-9000**



Indusoft is SCADA software which can run on and comes preinstalled on some versions of our of the WinPAC. Indusoft can be used to monitor and control automation processes. Other versions of the WinPAC can run C programs or Windows CE applications to perform a multitude of functions.

The PAC controllers have built in VGA and USB connections to either display graphically the status of the application or allow for direct troubleshooting or monitoring. The WP-9000 series also has redundant power inputs and dual Ethernet ports to allow for communication to other devices on the network.



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**Selection Guide:**

**WP-9**

**X**

NO. of I/O Slot

**2**

CPU  
2: Cortex-A8, 1 GHz

**X**

Software  
1: Standard  
8: Win-GRAF  
9: InduSoft

**- CE7**

Standard PAC

Model Name	OS	CPU	Flash	SDRAM	VGA Resolution	Ethernet Port	RS-232/RS-485	I/O Slot
WP-9221-CE7	CE 7.0	Cortex-A8, 1.0 GHz	256 MB	512 MB DDR3	1024 × 768	2	4	2
WP-9421-CE7								4
WP-9821-CE7								8

Win-GRAF Based PAC

Model Name	OS	CPU	Flash	SDRAM	VGA Resolution	Ethernet Port	RS-232/RS-485	I/O Slot
WP-9228-CE7	CE 7.0	Cortex-A8, 1.0 GHz	256 MB	512 MB DDR3	1024 × 768	2	4	2
WP-9428-CE7								4
WP-9828-CE7								8

InduSoft Based PAC

Model Name	OS	CPU	Flash	SDRAM	VGA Resolution	Ethernet Port	RS-232/RS-485	I/O Slot
WP-9229-CE7	CE 7.0	Cortex-A8, 1.0 GHz	256 MB	512 MB DDR3	1024 × 768	2	4	2
WP-9429-CE7								4
WP-9829-CE7								8



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## ➡ Analog Modules

### ✔ Analog Input Modules



Model Name	Bus	Analog Input		
		Channels	Input Range	Sensor
I-9014	Parallel	8/16	$\pm 10\text{ V}$ , $\pm 5\text{ V}$ , $\pm 2.5\text{ V}$ , $\pm 1.25\text{ V}$ , $\pm 20\text{ mA}$ (with external 125 $\Omega$ resistor)	-
I-9014C		8	$\pm 20\text{ mA}$ (with built-in 125 $\Omega$ resistor)	
I-97015	Serial	8	-	Pt100, Pt1000, Ni100, Ni120, Cu50, Cu100, Cu1000
I-9017Z	Serial	10/20	$\pm 150\text{ mV}$ , $\pm 500\text{ mV}$ , $\pm 1\text{ V}$ , $\pm 5\text{ V}$ , $\pm 10\text{ V}$ , $0 \sim 20\text{ mA}$ , $4 \sim 20\text{ mA}$ , $\pm 20\text{ mA}$ (Jumper selectable)	-
I-9017	Parallel	8/16	$\pm 10\text{ V}$ , $\pm 5\text{ V}$ , $\pm 2.5\text{ V}$ , $\pm 1.25\text{ V}$ , $\pm 20\text{ mA}$ (with external 125 $\Omega$ resistor)	
I-9017-15		15/30		
I-9017C-15		15		
I-97018	Serial	8	$\pm 2.5\text{ V}$ , $\pm 1\text{ V}$ , $\pm 500\text{ mV}$ , $\pm 100\text{ mV}$ , $\pm 50\text{ mV}$ , $\pm 15\text{ mV}$ , $\pm 20\text{ mA}$ , $0 \sim 20\text{ mA}$ , $4 \sim 20\text{ mA}$ (Jumper selectable)	Thermocouple: J, K, T, E, R, S, B, N, C, L, M, LQIN43710
I-97019	Serial	8	$\pm 15\text{ mV}$ , $\pm 50\text{ mV}$ , $\pm 100\text{ mV}$ , $\pm 150\text{ mV}$ , $\pm 500\text{ mV}$ , $\pm 1\text{ V}$ , $\pm 2.5\text{ V}$ , $\pm 5\text{ V}$ , $\pm 10\text{ V}$ , $0 \sim 20\text{ mA}$ , $4 \sim 20\text{ mA}$ , $\pm 20\text{ mA}$ (Jumper selectable)	

### ✔ Analog Output Modules



Model Name	Bus	Analog Outputs			
		Channels	Resolution	Output Range	Wiring Current Output
I-9024	Parallel	4	14-bit	$\pm 10\text{ V}$ , $0 \sim 20\text{ mA}$	Sink
I-9024U			16-bit	$0 \sim 5\text{ V}$ , $\pm 5\text{ V}$ , $0 \sim 10\text{ V}$ , $\pm 10\text{ V}$ , $0 \sim 20\text{ mA}$ , $4 \sim 20\text{ mA}$	Source
I-97024U	Serial				
I-9028U	Parallel	8	16-bit	$0 \sim 5\text{ V}$ , $\pm 5\text{ V}$ , $0 \sim 10\text{ V}$ , $\pm 10\text{ V}$ , $0 \sim 20\text{ mA}$ , $4 \sim 20\text{ mA}$	Source
I-97028U	Serial				

## ➡ Digital Modules



Model Name	Bus	Digital Input			Digital Output			
		Channels	Sink/Source	ON Voltage Level	Channels	Type	Sink/Source	Max. Load
I-9040P	Parallel	32	Sink/Source	19 ~ 30 Vdc	-	-	-	-
I-9041P		-	-	-	32	Open Collector	Sink	100 mA/Channel
I-9048		8	Sink/Source with Interrupt	+4 V ~ +30 V	-	-	-	-
I-9053P		16	Sink/Source	19 ~ 30 Vdc	-	-	-	-
I-9057P		-	-	-	16	Open Collector	Sink	200 mA/Channel
I-9064		-	-	-	8	Power Relay	Form A	5 A/Channel

If you have any questions concerning Industrial controllers, please contact us via email or phone. We are here to help.