



Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

Programmable Automation Controllers with Embedded OS

A [programmable automation controller](#) (or PAC) provides a higher level of control for industrial systems and applications. With the functionalities of a PLC, a PAC is able to leverage its processing capabilities similar to that of a computer to provide an advanced interface for industrial environments.

ICP DAS USA offers several types of PAC's, including those embedded with either a Windows or Linux OS. Instead of an IPC and PLC setup, ICP DAS USA's various PAC series provide a combined solution for a more efficient implementation. Some of the popular series (such as [WinPAC](#) and [X-PAC](#)) make it easy to develop systems by providing PC-like features including VGA, USB, and Ethernet ports. They have flexible support for a variety of programming languages, including C/C++, C#, .Net, and BASIC/VB. They come with I/O slots so users can implement high performance parallel I/O cards for their data acquisition needs. With DIN rail support and a PLC-like housing, these PAC's are perfect for industrial needs.



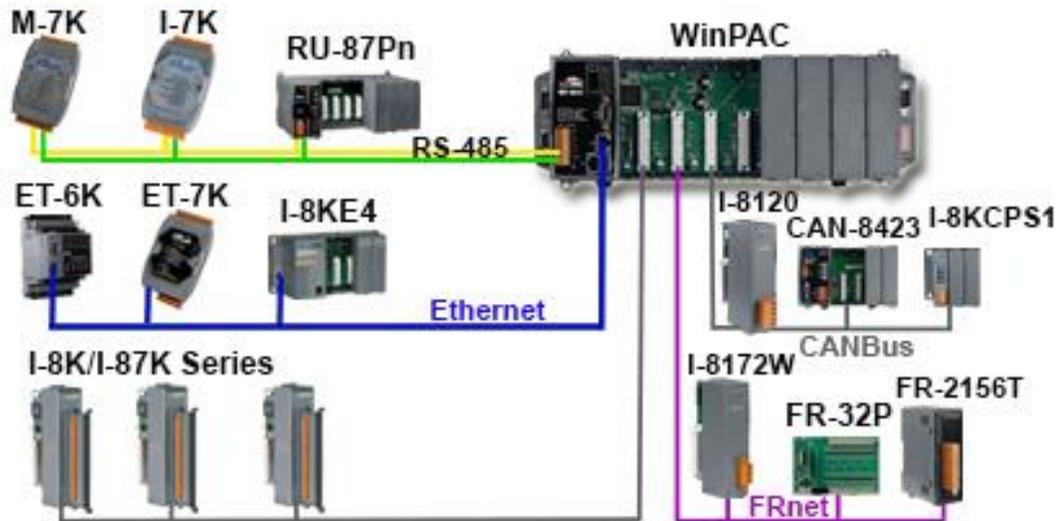
The WinPAC's are able to communicate across several different types of protocols, interfaces, and networks. For example, with the [WP-8141](#), engineers are able to connect with a network of serial devices by attaching an I/O expansion module. If an engineer needs to connect to an Ethernet network, RJ-45 cables can be used with the dual Ethernet ports to connect to an Ethernet networking device such



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as an unmanaged switch. With the proper connections, the [WP-8141](#) can communicate with remote I/O modules over various protocols, including DCON, Modbus RTU, Modbus TCP, and more.



With the industrial design, the PAC can be used in spaces and environments with physical limitations. For example, if a DIN rail is needed, models from these [PAC series](#) can be implemented easily. Ports and components are conveniently accessible with locations on the face of the device. Connect wiring to the terminal block for an RS-485 connection or plug in an RJ-45 cable to the Ethernet ports to communicate with remote I/O devices. An external display can also be configured by using the VGA port.

After devices and peripherals are set up, a variety of rich software solutions can be used to monitor the I/O channels. The PC-like nature from the embedded OS enables the use of powerful PC programs. [Indusoft](#) is often a common choice for SCADA solutions. With [WinPAC](#), the Windows allows popular MS software features, including FTP servers, HTTP servers, SQL servers, ASP, and more. This makes it easy to integrate services into industrial applications, allowing users to manage different features with an easy-to-use interface.

To learn more about ICP DAS USA's [different PAC solutions](#), please visit <https://www.icpdas-usa.com/catalog.php> to view our catalog. For any further questions, contact us through email at sales@icpdas-usa.com (tech@icpdas-usa.com for tech support) or give us a call at 1-310-517-9888.