

PCI PLC-resident Drivers: General Information

Who is PCI?

PCI is Parijat Controlware Inc. & sells as well as supports the world's largest range of communications drivers for Industrial automation, PLC, process control industry applications for Microsoft, Google, Apple, Linux products & ASP.NET core for web portal products. This document outlines various common features & knowledge base to help you make a decision. Welcome to the world of PCI, your exclusive and most mature, experienced (since 1989) source of help in Industrial data acquisition, control, HMI, SCADA and MIS, MRP, ERP or Browser based Internet applications based on **non-proprietary open architecture**.

PCI is the only team member or an extension of your staff, that has been educating since 1992 that you no longer be a slave to the proprietary (3rd party to MS) HMI, SCADA products. PCI can show you and train you how to apply Microsoft's products to solve your mission critical HMI/SCADA challenges, retaining the pluses of legacy 3rd party proprietary solutions, without their disadvantages.

PLC-resident drivers:

PCI also markets a unique set of drivers that run and reside inside the PLC type controllers. Each facility employing automatic control has many smart field industrial devices made by many diverse vendors that talk different protocols. To interconnect them into a single cohesive control system requires them to share real-time data amongst them. To connect them together, the following methods are traditionally employed:

- Use a computer/PC as a via media
- External protocol converters HW
- Internal 3rd party hardware modules

All of the above solutions have following issues:

- Creates layers of HW,SW
- Dependencies on outside 3rd party vendors
- Processing latencies, delays
- Another potential of failure

PCI solves this issue with a native solution that utilizes native HW from controller vendor.

Features/Benefits PCI PLC Resident Drivers

Technical

- Very limited PLC memory usage as compared to Hardware specific modules
- No external wiring or Rack-slot consumption
- Simple usage in your logic just like regular AOI (Add-On Instruction) or FB (function block)
- Provide High Performance, low payload connectivity to External Field devices.
- Allow your application to read/write data from external field devices very easily.
- Transmission and connection time-out supervision
- Detailed transmission and protocol failure reporting via error codes
- Robust design suitable for real-time, historic and industrial applications
- Powerful pre-built example application with source code is included in the package.
- Complete help with examples.
- No artificial limits on Devices per network and limits on points/tags to read/write.

Commercial

- No 3rd party license/hardware required



- Enjoy a true single-vendor solution from original Hardware manufacturer.

Parijat Controlware Delivers

- The logic module to import into your PLC logic (sample example is in ladder logic – contact PCI for FBD, ST etc.)
- The help file and documentation in the above directory.
- The example application, which is fully functional and is ready to bi-directionally communicate with the devices of your choice.

Other Options (Contact PCI for details)

- Source code.
- Technology transfer services.
- Additional training on the products & their plumbing level details.

Transports

Parijat drivers support various physical transports (These are generally available for most drivers. Please consult PCI) as follows.

- TCP/IP
- UDP
- RS232
- RS485/422
- VPN
- Cell service
- Wifi and other wireless technologies

Contact Parijat for an expert opinion on your system configuration and start making a move towards open systems.

If you like to have some feature(s) not currently supported, please share with us and if appropriate, may be added. If you need a driver developed for any protocol not currently supported, please let us know. The list of drivers available being built is expanded regularly. Please email support@parijat.com for tech support.

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