

CPC Communication Capabilities

This document is an overview of CPC's communication capabilities. Please speak with an ASC sales representative to discuss the ideal solution for your system, or if you require communication with a system that is not detailed in this document.

CPC communication capabilities

ASC's CPC has the ability to talk to other systems in many other ways. Here are ways in which CPC can push and pull data.

CPC pushing data

- CPC can write to multiple databases. If there is an ODBC-compliant database, we can setup a connection string and write data to a specific record and table.
- CPC can write to a local database such as MS Access and MS SQL. SCADA systems can pull information from one of these databases.
- CPC can write information to a flat text file. This is often used to have CPC write information to MRP systems. The MRP system checks a specific folder and when a file exists it will load it and delete it. This is not an ideal solution, but it is requested by some customers.
- CPC can store information in a PLC so that the SCADA system can pull information from the PLC. This would be useful if your SCADA already has the ability to communicate with your PLC.
- CPC can communicate serially via RS232 or RS422/485. This is an outdated technology, but might be required in certain instances.

CPC pulling data

- CPC can be setup as an OPC Server. This is rarely used, but can allow CPC to deliver tag information to outside consumers.
- CPC exposes DLL Com Objects that can be easily connected to by external programs. This allows, for example, an Excel VBA application to pull information from CPC directly without CPC being involved. This is often used by companies that want to create their own system for displaying or transferring information. Some SCADA packages support COM interface and might be able to easily pull information in this way.
- CPC has special objects called "TCPTalker" and "TCPListener" which serve to communicate information via a TCP Socket. This allows easy penetration of firewalls and is a simple socket-level communications. It would need a simple program on the consumer side that talks and listens to CPC. This application can then direct information elsewhere with whatever protocol you desire. We have sample .NET applications that we provide to customers for this.