



SoftPLC Hot Backup System

Features

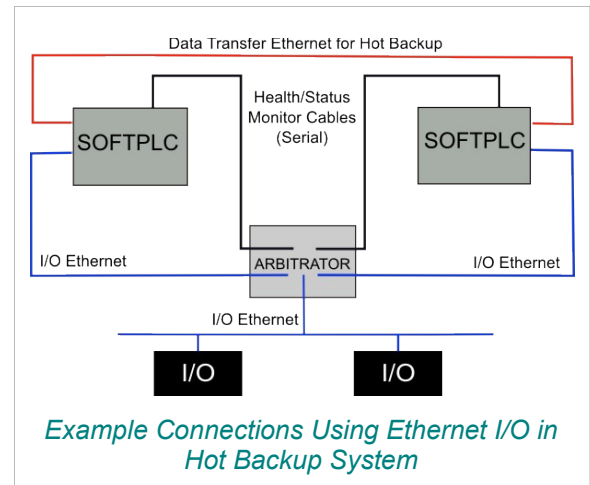
- “Bumpless” I/O control transfer from active to backup controller in the event of a failure event
- Use with any model SoftPLC Controllers
- Use with any remote I/O on a network serviced by a “Hot Backup aware” driver
- Standalone Arbitrator monitors and controls the active/backup status of redundant SoftPLC controllers
- No special cables are required, connections are via standard Ethernet and serial cables
- Either SoftPLC can serve as master or backup and can switch roles at any time

General Description

The SoftPLC Hot Backup System provides a way to develop a redundant controller CPU system. This can lead to an increased level of reliability, by providing operational redundancy with “bumpless” transfer of I/O control between SoftPLC CPU's if a control switchover failure related event occurs.

The SoftPLC Hot Backup system includes both software and hardware components. The software component (*Cat No. SPZ-HS*) is a TOPDOC Loadable Module (TLM), which can be added to any SoftPLC controller. The SPZ-HS manages the Hot-Backup related activity of the SoftPLC CPU's, and is extremely easy to configure.

An passive DIN-mounted intermediary device, called the **Arbitrator** (*Cat No SPZ-HAS*), links the two SoftPLC CPU's, manages which is the master/backup, and functions as a pass-through for communications from the SoftPLC's to the remote I/O.



The Arbitrator:

- Ensures that only one SoftPLC will be able to control the I/O
- Manages the master/backup status of each SoftPLC controller
- Manages synchronization of datatable values
- Enters fail-safe operating condition to always allow communication to the I/O in the event of power/communication loss

The SoftPLC Hot Backup System requires no special programming software. A simple text configuration file lists the data table values you want transferred, over 76,000 registers are supported.

Status file bits can be used in the logic and by HMI/SCADA systems to determine which SoftPLC is acting as the master and to manually force a switchover.

Ordering Information

- (2) SoftPLC controller CPU's (*any model with ver 4.6 or later firmware*)
- SPZ-HS firmware option for each CPU
- SPZ-HAS, Hot Backup Standby Arbitrator