

PC Control with Field I/O

Think & Do, with your choice of I/O, is a powerful, flexible solution for all your automation needs. The example below uses Ethernet, but Think & Do PC Control supports DeviceNet, PROFIBUS, and other popular fieldbus networks as well.

Business System



Uplink to Office LAN



Ethernet Base Controller's [TIH-EBC(100)] on-board serial port provides a link to label printer/appliator or another serial device.

Terminator I/O distributes small groups of I/O at control points throughout the process

Dedicated I/O LAN



Main factory floor PC coordinates production, manages product database, and controls material handling systems

Control PCs using separate Ethernet ports to isolate the control networks from the business LAN(s)

Fail-safe mode choices:
1) All I/O off
2) Timer-based I/O hold
3) Preset pattern
(For all distributed I/O mastered from a PC.)



DL205 I/O on Ethernet supports a wide range of I/O, including the H2-CTRIO(2) counter module

Ethernet link to production databases

Data tags from other PCs are shared over LAN for HMI and control

Think & Do controls automated grinding machine. Local HMI with touchscreen replaces pushbuttons



Third-party PC motion card controlling three-axis servo system for grinding heads.

Industrial modem connection supplies machine support data to OEM



Third-party PC card interface to Ethernet vision inspection system



SE-SW8U Stride industrial Ethernet switch



GPIB/IEEE488 to legacy Laser Surface Analyzer



Think & Do controls application of specialty surfaces in oven using complex flow calculations. Also performs visual inspection of finished product

All industrial hardware shown is available in this catalog