Three PC Control Solutions using Think & Do





Think & Do 8.0

PC-TD8-USB

USB key Development and Runtime key

PC-TD8-WEB4-USB

Four concurrent with USB key with web viewing capability

ESS-BASIC

Extended service and support; Basic 1 year

ESS-PREMIUM

Extended service and support; Premium 1 year

Includes:

- Flowchart logic
- Superior HMI features
- Easy SQL interface
- Web view capable (requires web view version)
- · Importing screens
- Integrated serial communication
- Modbus TCP, Modbus RTU and Modbus Plus support
- · Integrated motion control
- Integrated motion control
- PID process control (64 loops)
- Powerful debugging tools
- Offline logic testing
- Common database for HMI, logic and motion

Choose Think & Do 8.0 when you need

- 1. to communicate to an SQL database
- 2. a superior HMI with animation and advanced graphics

System requirements

Development System

Windows 2000 (SP4), XP (SP2), Vista Pentium IV compatible processor 256 MB RAM (512 MB or higher recommended), 750 MB available hard disk space

CD-ROM drive

64 MB or higher video adapter Color monitor (min resolution 800 x 600), Ethernet adapter

Windows 2000/XP/Vista Runtime Target

Windows 2000 (SP4), XP (SP2), Vista Pentium IV compatible processor 256 MB RAM (512 MB or higher) 500 MB available hard disk space CD-ROM drive 64 MB or higher video adapter Color monitor or flat panel display for HMI min resolution 800x600) Ethernet adapter

PLC Runtime Target

H2-WINPLC3



Completely compatible with original Think&Do Development Software applications

Think & Do Live!

PC-ENT-LIVE

Development/run-time license

PC-WPLC-LIVE

WinPLC programming pack (HMI creator and external I/O drivers not included)

Includes:

- · Flowchart logic
- · HMI creator
- Reuseable subcharts
- Integrated serial communication
- Integrated motion control
- OPC Client and Server
- Modbus TCP & Modbus RTU Support
- PID process control (64 loops)
- Powerful debugging tools
- Offline logic testing
- Common database for HMI, logic and motion
- Productivity Analysis tools
- WinPLC support

Choose Live! when

- 1) HMI requirements are moderate
- 2) no SQL is required
- 3) projects are created by a single developer

System requirements

Development System

Windows NT/2000/XP-Certified Pentium 133

Windows NT/2000/XP Operating System

Ram Requirements:

Windows NT - 32 MB Windows 2000- 64 MB Windows XP - 128 MB 450 MB available hard disk space

CD-ROM drive

Color monitor (min resolution 800 x 600)

Windows Runtime Target

Windows NT/2000/XP-Certified Pentium 300 (or higher)

Windows NT/2000/XP Operating System 128 MB RAM

300 MB available hard disk space CD-ROM drive (optional) Color monitor or flat-panel display for HMI

(min resolution 640 x 480) I/O scanner or network card

PLC Runtime Target

H2-WINPLC3



PLC Overview

DL05/06 PLC

DL105

DL205

DL305 PLC

DL405 PLC

Field I/O

oftworo

C-more

Other HMI

AC Drives

Motors

Steppers/ Servos

Motor Controls

Proximity Sensors

Photo

Limit Switches

Encoders

Current Sensors

Pushbuttons/ Lights

Process

Relays/ Timers

Comm.

TB's & Wiring

Power

Circuit Protection

Enclosures

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The WinPLC, a hybrid PC/PLC solution

H2-WPLC3-EN

Development/run-time license For Think & Do Live! 8 MB ROM/8 MB RAM

The WinPLC is a truly unique hybrid solution providing Think & Do PC control programming benefits on a PLC-style device. Develop applications with Think & Do Live! and download them to the WinPLC.

Use a WinPLC when you need:

- The advantages of PC control: complex math, data manipulation and connectivity
- 2. A PLC's rugged industrial form, non-volatile memory and standard PLC I/O

Or when:

- 1. A standard OI will suffice for your HMI
- 2. You don't need a PC

Think & Do Live! for WinPLC Programming Pack (PC-WPLC-LIVE)

Just the programming features needed for the WinPLC at a low price. Includes flowchart logic, reusable subcharts, PID functions, serial drivers, Modbus TCP/IP and a free OPC/DDE server.

System requirements

Windows NT/2000/XP-Certified Pentium

133
Windows NT/2000/XP Operating System

Ram Requirements: Windows NT - 32 MB

Windows 2000- 64 MB Windows XP - 128 MB 450 MB available hard disk space CD-ROM drive Color monitor (min resolution 800 x 600)

PLC Runtime Target

Development System

H2-WINPLC3

Note: PC Runtime Target not supported

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Think & Do 8.0 Overview



Think & Do™ Version 8.0 is an integrated control environment that lets you do more with a given PC platform. It supports development, deployment and operation of high-value automated control systems for material handling and manufacturing. Think & Do 8.0 provides an intuitive, openarchitecture environment that readily integrates with hardware and software components from virtually all major suppliers.

Projects created with Think & Do 8.0 integrate seamlessly with enterprise information systems to provide valuable data about system operation. Major components of Think & Do 8.0 are:

- ProjectCenter: Provides ready access to all project elements and the fully integrated tagname database using the Data Item Explorer.
- FlowView: For creating control logic.
- ScreenView: For creating HMI screens.
- I/O View: For configuring project I/O.
- AppTracker: For fast, graphical debugging.
- Runtime Engine: Provides a robust, deterministic project execution environment.

Think & Do 8.0 makes it easy to target your project to the Microsoft Windows platform that best suits your needs Whether you create a project for a Certified PC or CE, scaling for a different platform requires only minor adjustment. There are four USB key versions available, so selecting the

product that best meets your needs is easy. There are two USB key development packages, one with and one without web viewing capabilities.

Extended Software Service and Support (ESS) Products

We offer two extended support products, a basic package and a premium package. The basic ESS package, ESS-BASIC, is a one-year subscription and includes

- 8 AM to 5 PM EST telephone support directly from Phoenix Contact
- · E-mail support
- USB-Parallel key swaps
- Defective or damaged key replacements
- Software maintenance updates.

The premium ESS package, ESS-PREMIUM, is also a one-year subscription. It contains everything in the basic package, plus

- Webex training seminars
- A 50% discount on training seats
- · Major software platform updates
- Upgrade from Think & Do Live! version 5.x to Think & Do 8.0 plus hardware key
- Or an upgrade from Think & Do Studio version 7.x via a hardware key field upgrade or replacement.

Note: ESS products cannot be purchased online. The order must be phoned in (800-633-0405) and a valid software serial number is required.

Conversion from Think & Do Studio and Live!

Studio: Flowcharts developed in Studio can be converted to Think & Do 8.0, but HMI screens cannot be converted.

Live!: Flowcharts and HMI screens developed in Live! cannot be converted to Think & Do 8.0.

Demo Mode

To see if Think & Do 8.0 is right for you, you can install and use it for up to 40 hours within a 30-day time period at no cost.

System requirements

Development System

Windows 2000 (SP4), XP (SP2), Vista Pentium IV compatible processor 256 MB RAM (512 MB or higher recommended),

750 MB available hard disk space CD-ROM drive

64 MB or higher video adapter Color monitor (min resolution 800x600), Ethernet adapter

Windows 2000/XP/Vista Runtime Target

Windows 2000 (SP4), XP (SP2), Vista Pentium IV compatible processor 256 MB RAM (512 MB or higher) 500 MB available hard disk space CD-ROM drive 64 MB or higher video adapter Color monitor or flat panel display for HMI min resolution 800x600) Ethernet adapter

PLC Runtime Target

H2-WPLC3-EN

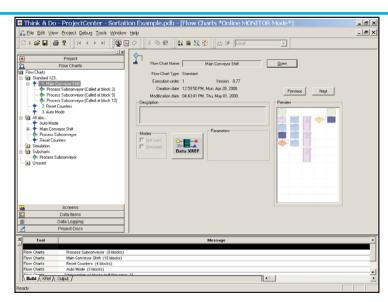
Training

Phoenix Contact offers training courses led by certified Phoenix Contact Solution Providers at their headquarters in Ann Arbor, MI. Get the most from this powerful software by understanding it inside and out. Check www.phoenixcon.com/software for training dates. Training is half price for subscribers to Premium Extended Service and Support, ESS-PREMIUM.

Features

ProjectCenter for creating your project

ProjectCenter is the starting point for developing your project and provides access to all Think & Do development tools, such as menus, project information and runtime settings. It provides ready access to all project elements and the fully integrated tagname database.

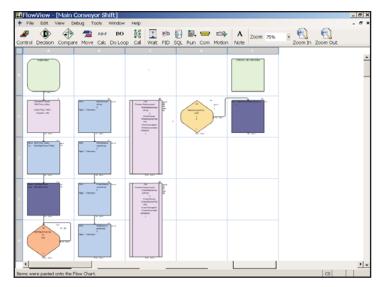


8-32 Software 0 1 7 3 7 - 8 2 4 6 0 0

Think & Do 8.0 Overview

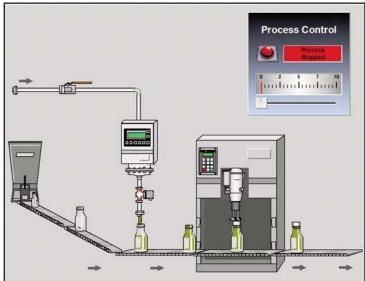
FlowView for creating control logic in easy-touse and read control flowcharts

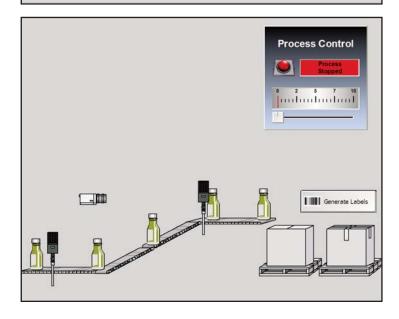
Think & Do uses flow chart control programs and FlowView is where you develop control flowcharts. Menus provide access to all commands in FlowView, as well as online help.



ScreenView for creating and editing HMI screens

The most dramatic improvement in this revision of Think & Do is the new HMI screen tool. ScreenView appears in an independent window that provides a complete HMI screen development environment. The graphical capabilities and functionality in v8.0 far surpass any previous screen tools we have employed for this PC-based control environment.







LC Verview

DL05/06 PLC

DL105 PLC

DL205 PLC

DL305 PLC

DL405

Field I/O

Software

C-more

Other HMI

AC Drives

Motors

Steppers/ Servos

Motor Controls

Proximity Sensors

Photo Sensors Limit Switches

Encoders

Current Sensors

Pushbuttons/ Lights

Process

Relays/ Timers

Comm.

TB's & Wiring

Power

Circuit Protection

Enclosures

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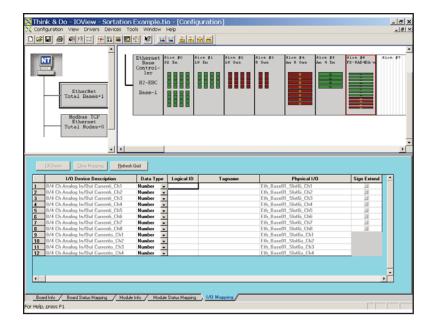
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Think & Do 8.0 Overview

I/OView for configuring your project I/O

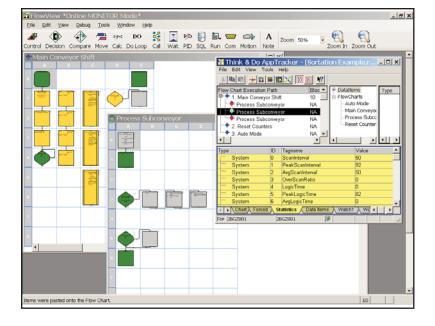
Use IOView to easily:

- · Specify inputs, outputs, and data items
- Configure I/O
- · Add I/O drivers and devices
- Map I/O
- Scan and monitor I/O
- Use a watchdog timer



AppTracker provides a fast, graphical debugging tool

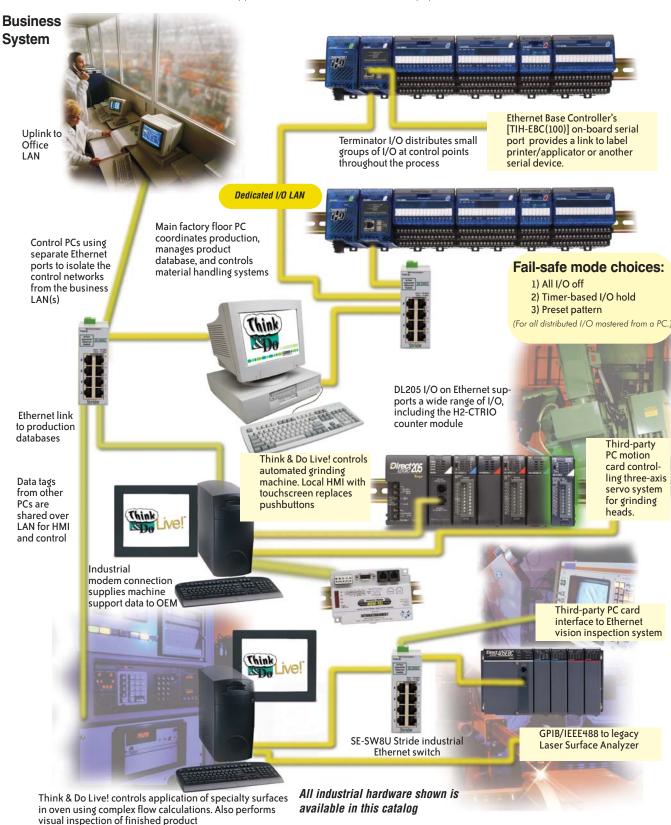
AppTracker is a stand-alone application. It can run even if the development tools in ProjectCenter are not running and can help identify problems easily during development.



8-34 Software 0 1 7 3 7 - 8 2 4 6 0 0

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.





PLC Overvier

DL05/06 PLC

DL105 PLC

DL205 PLC

DL305 PLC

DL405

Field I/O

oftware

C-more HMIs

Other HMI

AC Drives

Motors

Steppers/ Servos

Motor Controls

Proximity Sensors

Photo Sensors

. .

Limit Switches

Encoders

Current Sensors

Pushbuttons/ Lights

Process

Relays/ Timers

Comm.

TB's & Wiring

Power

Circuit Protection

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I/O Selection Guide for PC Control

Our PC-based control architecture allows you to choose I/O from our most complete and flexible I/O families. AUTOMATIONDIRECT I/O also supports the most popular control networks, such as Ethernet, Profibus and DeviceNet. Check out this chart to see most of the available options. Refer to I/O specifications in the PLC or Field I/O section for a complete list.

DL205 Discrete Input Modules DL405 Discrete Input Modules DL405 Temperature Modules D2-68ND3 8-pt 12-24VDC sink/source D4-68ND3 8-pt 12-24VDC source F4-08RD 8-ch RTD D2-68ND3-2 16-pt 24VDC sink/source D4-16ND2F 16-pt 12-24VDC source F4-08RDM 8-ch RTD E4-08RDM E4-	lules e Input irce
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DL205 Combination Discrete Modules D2-08CDR Combo 4-pt 24VDC in and, 4-pt relay out F4-08TRS-1 8-pt relay 12-30VDC or, 12-250VAC T1K-08TR 8-pt relay 5-30VDC or 5-240VAC DL205 Analog Modules F2-04AD-1 4-ch input, 4-20mA 12 bit res Network Bus Interfaces and I/O Bases T1K-16TR 16-pt relay 5-30VDC or 5-240VAC Network Bus Interfaces and I/O Bases T1K-16TR 16-pt relay 5-30VDC or 5-240VAC Network Bus Interfaces and I/O Bases T1K-16TR 16-pt relay 5-30VDC or 5-240VAC Network Bus Interfaces and I/O Bases T1K-16TR 8-pt relay 5-30VDC or 5-240VAC	
D2-08CDR Combo 4-pt 24VDC in and, 4-pt relay out D12-08 Analog Modules F2-04AD-1	
D2-08CDR Combo 4-pt 24VDC in and, 4-pt relay out F4-08TRS-2 8-pt relay 12-30VDC 01, 12-230VAC Of 5-240VAC	
F2-04AD-1 4-ch input, 4-20mA 12 bit res F2-04AD-2 4-ch input, voltage 12 bit res DL205 and DL405 bases, Terminator I/O power supplies and terminal bases, Bus adapter modules for PC control DL205 (Fibernet Profitus DeviceNet 5-30VDC or 5-240VAC	
F2-04AD-1 4-ch input, 4-20mA 12 bit res F2-04AD-2 4-ch input, voltage 12 bit res DL205 and DL405 bases, Terminator I/O power supplies and terminal bases, Bus adapter modules for PC control DL205 (Fibernet Profibus DeviceNet) T1K-08TRS 8-pt isolated relay 5-30VDC or 5-240VAC	
F2-04AD-2 4-ch input, voltage 12 bit res DL2U5 and DL4U5 bases, lerminator I/O power supplies and terminal bases, Involved the supplies are supplies and the supplies are supplies are supplies and the supplies are supplies a	
Bus adapter modules for PC control: DI 205 (Ethernet: Profibus: DeviceNet: IL	
F2-04AD-1L 4-pt in 4-20mA, 12 bit, ext 12VDC pwr SDS); DL405 (Ethernet); Terminator I/O (Ethernet, Profibus, DeviceNet) Terminator I/O Analog I	Indules
F2-04AD-2L 4-pt in voltage, 12 bit, ext 12VDC pwr	iodaics
F2-08AD-1	
F2-08AD-2 8-ch input voltage, 12-bit res F4-04AD 4-ch analog input voltage/current T1F-08AD-2 8-ch analog input voltage/current	
F2-02DA-1 2-ch output 4-20mA, 12-bit res F4-04ADS 4-ch isolated analog voltage/current F2-02DA-1 2-ch output 4-20mA, 12-bit res F4-04ADS 4-ch isolated analog voltage/current F4-04ADS 4-ch isolated analog voltage/current F4-04ADS 4-ch analog output	
F2-02DA-2 2-ch output voltage, 12-bit res F4-08DA-1 4-20mA 12-bit res	
F2-02DA-1L 2-ch 4.20 mA out 12-bit, ext 12VDC pwr F4-16AD-1 16-ch analog input, current, 12-bit F4-16AD-2 16-ch analog input, voltage 12-bit res	
F2-02DA-2L 2-ch voltage out 12-bit, ext 12VDC pwr	1
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F2-02DAS-2 Isolated 2-ch voltage 16-bit out	
F2-08DA-1 8-ch, 4-20mA, 12-bit out	
F4-U4DAS-2 4-ch isolated 16-bit analog output, voltage 4-20mA 12-bit res	
F2-4AD2DA 4-ch in /2-ch out 4-20mA 12-hit res	
F2-8AD4DA-1 8-ch in/4-ch out, current, 16-bit F4-08DA-2 8-ch 0-5VDC or 0-10VDC, 12-bit analog out T1E-14THM 14-ch thermocouple	
F2-8AD4DA-2 8-ch in/4-ch out, voltage, 16-bit	
F2-04RTD 4-channel RTD, 0.1 DEG C res F4-16DA-2 16-ch 0-5VDC or 0-10V DC 12-bit analog out 11F-8AD4DA-1 1/0 8-ch analog input 4-ch analog output, cur	
1 To it alialog output, out	ent
F2-04THM 4 ch thermocouple or 16-bit volt input	
F2-04THM 4 ch thermocouple or, 16-bit volt. input T1F-8AD4DA-2 I/O 8-ch analog input 4-ch analog output, volt	age
F2-04THM 4 ch thermocouple or, 16-bit volt. input DL205 Specialty Modules H2-CTBIO DL205 bigh speed counter with pulse out	age Module :
F2-04THM 4 ch thermocouple or, 16-bit volt. input T1F-8AD4DA-2 // 0 8-ch analog input 4-ch analog output, volt	age Module :

Automation Direct

PLC Overview

DL05/06

DL105

DL205 PLC

DL305 PLC

DL405

Field I/O

Software

C-more HMIs

Other HMI

AC Drives

Motors

Steppers/ Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Current Sensors Pushbuttons/ Lights

Process

Relays/ Timers

Comm.

TB's & Wiring

Power

Circuit Protection

Enclosures

Appendix

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Part Index

Note: All networked I/O has fail-safe mode choices 1. All I/O off 2. Leave I/O in last state 3. Fail-safe pattern

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