



# Step 1: Review the DL205 Product Family

## CPUs

- [D2-262](#) – 30.4K words total memory
  - 2 communications ports
  - 16 built-in PID loops with auto-tuning

## Programming tools

- **DirectSOFT** Programming Software for Windows
  - Handheld Programmer ([D2-HPP](#))

## Bases

- 3-slot base (includes power supply)
  - 110/220 VAC ([D2-03B-1](#))
  - 12/24 VDC ([D2-03BDC1-1](#))
- 4-slot base (includes power supply)
  - 110/220 VAC ([D2-04B-1](#))
  - 12/24 VDC ([D2-04BDC1-1](#))
- 6-slot base (includes power supply)
  - 110/220 VAC ([D2-06B-1](#))
  - 12/24 VDC ([D2-06BDC1-1](#))
  - 125VDC ([D2-06BDC2-1](#))
- 9-slot base (includes power supply)
  - 110/220 VAC ([D2-09B-1](#))
  - 12/24 VDC ([D2-09BDC1-1](#))
  - 125VDC ([D2-09BDC2-1](#))

## Local expansion modules

- [D2-262](#) CPU, using [D2-0\\*B-1](#) or [D2-0\\*BDC\\*-1](#) only
- Base expansion module ([D2-EM](#))
- Expansion base controller module ([D2-CM](#))
- Expansion base cable [C5E-STPBK-S3](#)

## Discrete input modules

- **DC input**
  - 8-pt. 12–24 VDC sink/source ([D2-08ND3](#))
  - 16-pt. 24 VDC sink/source ([D2-16ND3-2](#))
  - 32-pt. 24 VDC sink/source ([D2-32ND3](#))
  - 32-pt. 5-12 VDC sink/source ([D2-32ND3-2](#))
- **AC input**
  - 8-pt. 110 VAC ([D2-08NA-1](#))
  - 16-pt. 110 VAC ([D2-16NA](#))
  - 8-pt. 220 VAC ([D2-08NA-2](#))

## Discrete output modules

- **DC output**
  - 4-pt. 12–24 VDC sink ([D2-04TD1](#))
  - 8-pt. 12–24 VDC sink ([D2-08TD1](#))
  - 8-pt. 12–24 VDC source ([D2-08TD2](#))
  - 16-pt. 12–24 VDC sink ([D2-16TD1-2](#))
  - 16-pt. 12–24 VDC source ([D2-16TD2-2](#))
  - 16-pt. 24 VDC sink (Fault protected) ([F2-16TD1P](#))
  - 16-pt. 24 VDC source (Fault protected) ([F2-16TD2P](#))
  - 32-pt. 12–24 VDC sink ([D2-32TD1](#))
  - 32-pt. 12–24 VDC source ([D2-32TD2](#))
- **AC output**
  - 8-pt. 18–220 VAC ([D2-08TA](#))
  - 8-pt. 20–125 VAC ([F2-08TA](#))
  - 12-pt. 18–110 VAC ([D2-12TA](#))
- **Relay output**
  - 4-pt. 4A/pt (Isolated) ([D2-04TRS](#))
  - 8-pt. 1A/pt ([D2-08TR](#))
  - 8-pt. 10A/pt. ([F2-08TR](#))
  - 8-pt. 7A/pt (Isolated) ([F2-08TRS](#))
  - 12-pt. 1.5 A/pt ([D2-12TR](#))

## Combination discrete modules

- 4-pt. 24 VDC in/4pt Relay Out ([D2-08CDR](#))

## Analog modules

- **Analog input**
  - 4-ch. in, 12 bit, current ([F2-04AD-1](#))
  - 4-ch. in, 12 bit, voltage ([F2-04AD-2](#))
  - 8-ch. in, 12 bit, current ([F2-08AD-1](#))
  - 8-ch. in, 12 bit, voltage ([F2-08AD-2](#))
- **Analog output**
  - 2-ch. out, 12 bit, current ([F2-02DA-1](#))
  - 2-ch. out, 16 bit, current (Isolated) ([F2-02DAS-1](#))
  - 2-ch. out, 12 bit, voltage ([F2-02DA-2](#))
  - 2 -ch. out, 16 bit, voltage (Isolated) ([F2-02DAS-2](#))
  - 8-ch. out, 12 bit, current ([F2-08DA-1](#))
  - 8-ch. out, 12 bit, voltage ([F2-08DA-2](#))
- **Combination analog in/out**
  - 4-ch. in/2-ch. out, 12 bit, current ([F2-4AD2DA](#))
  - 8-ch. in/4-ch. out, 16 bit, current ([F2-8AD4DA-1](#))
  - 8-ch. in/4-ch. out, 16 bit, voltage ([F2-8AD4DA-2](#))
- **Temperature input**
  - 4-ch. in, RTD ([F2-04RTD](#))
  - 4-ch. in, Thermocouple ([F2-04THM](#))

## Communications/networking modules

- Ethernet Communications Module ([H2-ECOM100](#))
- Serial Data Communications Module ([D2-DCM](#))

## Remote I/O modules

- **Ethernet**
  - Ethernet Remote Client Module ([H2-ERM100](#))
  - Ethernet Base Controller (server) ([H2-EBC100](#))

## Specialty modules

- Basic CoProcessor ([F2-CP128](#))
- 8-pt. Input Simulator ([F2-08SIM](#))
- Counter I/O ([H2-CTRIO2](#))
- Counter Interface ([D2-CTRINT](#))\*

## CPU-slot Server controllers

- Ethernet Base Controller ([H2-EBC100](#))

## Operator interface

- See the **C-more** and HMI sections in this catalog for a complete line of compatible text and touch panels and configuration software.

## Connection systems

- See the Terminal Blocks and Wiring Solutions section in this catalog for information on **DINector** terminal blocks, **ZIPLink** connection systems and other connection accessories for use with the DL205 system.

\*NOTE: [D2-262](#) CPU does not support the [D2-CTRINT](#) module.



# DL205 Programming Tools and Cables

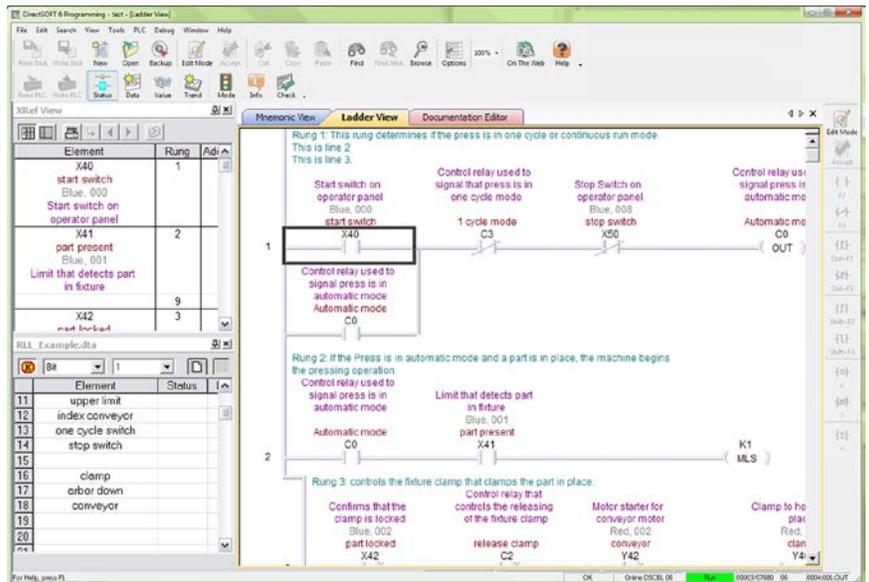
## Selecting a programming device

There are two tools for programming the DL205 CPUs: **DirectSOFT** PC-based programming software and the D2-HPP handheld programmer.

### DirectSOFT

#### programming software

Our powerful Windows-based programming package makes it easy for you to program and monitor your DL205 PLC system. See the **DirectLOGIC** Overview Section DL in this catalog for detailed information on **DirectSOFT**.



DirectSoft Part Number	Price	Description
<b>PC-DSOFT6</b>	\$462.00	Programs all <b>DirectLOGIC</b> PLC CPUs; offers IBox intelligent instructions
<b>PC-DS100</b>	Free	Free version of <b>DirectSOFT</b> ; programs all <b>DirectLOGIC</b> PLC CPUs; limited to 100 word program

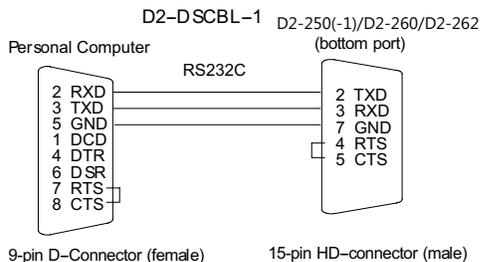
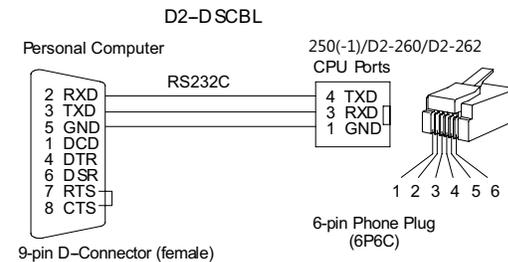
Note: D2-262 CPU requires **DirectSOFT** version 6.3 or later

### DL205 programming cables

Choose the proper cable to connect the DL205 CPU to your PC running DirectSOFT.

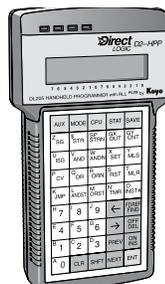
CPU	Port	Cable	Price
<b>D2-262</b>	Top port	<b>D2-DSCBL</b>	\$42.00
	Bottom port	<b>D2-DSCBL-1</b>	\$81.00

Pin labeling conforms to IBM DTE and DCE standards



### Handheld programmer

The D2-HPP handheld programmer connects to an RJ12 phone jack port on any of the DL205 CPUs. The handheld unit contains a zero force insertion socket that can be used to store programs on an optional EEPROM. Can be used with DL05, DL06, DL105, and DL205 models.



**D2-HPP**  
Handheld programmer,  
cable included  
(DV-1000CBL)