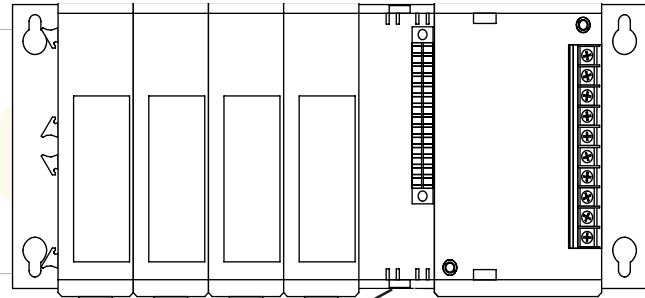


DL305 CPU

There are many considerations for choosing the right CPU, most of which depend on your particular application. If you need to control I/O with a personal computer, or if you want to run a BASIC program in a CPU instead of ladder logic, then check out the specialty D3-350 CPU.



D3-350—The D3-350 is a powerful DL305 CPU. It is a spin-off of the D2-250(-1). It is plug-compatible with older bases, as well as analog and discrete I/O modules. The instruction set and I/O numbering scheme are similar to our DL05, DL06, DL105, DL205 and DL405 PLCs. The communications capabilities have also been greatly enhanced to include RS422 Remote I/O, MODBUS Client and Server protocols, as well as our own DirectNet and K-Sequence protocols. When the D3-350 is installed in a -1 base, even more features are available. These bases allow for greater I/O expansion capabilities and for intelligent I/O modules.

Programming

Handheld programmer:

D2-HPP \$497.00

DirectSOFT Programming for Windows

PC-DSOFT6 \$427.00

PC-DS100 Free

PC-R60-U (upgrade) \$269.00

CPU Specifications

DL305 CPU Specifications	
System Capacity	
	D3-350
Total memory (K words)	14.8
Ladder memory (K words)	7.6
User data memory	7.1 K words
CMOS RAM	No
UVPROM	No
EEPROM	Flash
Total I/O points using:	
Local I/O	144
Local and Expansion I/O	368
Remote I/O(1)	512
I/O point density	8/16
Slots per base (CPU requires 1 slot)	5/8/10
Performance	
Contact execution (boolean)	0.61 μ s
Typical scan (1K boolean)(2)	5-6 ms
Programming & Diagnostics	
RLL ladder style	Yes
RLLPLUS (stage)	Yes
RunTime Editing	Yes
Supports Overrides	Yes
Variable/fixed scan	Either
Handheld programmer port	Yes
Built-in RS232C ports	2
Real-time clock/calendar	Yes
Instructions	129
Control relays(CR)	1024
Shift register bits	Use CRs
Stages (RLLPLUS only)	1024
Timers/counters	256/128
Immediate I/O	Yes
Subroutines	Yes
For/Next Loops	Yes
Timed interrupt	Yes
Integer math	Yes
Floating point math	Yes
PID	Yes
Drum sequence	Yes
Bit of word	Yes
ASCII print	Yes
Data registers	7168
Internal diagnostics	Yes
Password security	Multi-level
Battery backup	Yes
Communications	
Built-in ports	Yes
DirectNET Client	Yes
DirectNET Server	Yes
MODBUS RTU Client	Yes
MODBUS RTU Server	Yes
Data communications unit	N/A
Specialty modules	
Thermocouple	Yes
Analog Input (#channels max.)	368
Analog output (#channels max.)	48
High-speed counter (10KHz)	No



1. The D3-350 bottom port supports DL205 remote I/O.
2. 1K program includes contacts, coils, and scan overhead. If you compare to other products, make sure to include their scan overhead.