

# DL405 CPU Specifications

<b>DL405 CPU Specifications</b>	
	<b><i>D4-454</i></b>
<b>System Capacity</b>	
Total memory available (words)	46.8K
Ladder memory (words)	
built-in memory	31.5K
with memory cartridge	N/A
V-memory (words)	15.3K
Battery backup	Yes, MRAM*
Total CPU memory I/O pts. available	8192 (X+Y+GX+GY)
(actual I/O points depend on I/O configuration selected)	2/4/8/16/32/64
I/O module point density	4/6/8
I/O module slots per base	1024 in/1024 out
<b>Local/local expansion</b>	4224 max.
<b>Serial Remote I/O (including local &amp; exp. I/O)</b>	3
Remote I/O Channels	512, 2048
I/O pts. per remote module	Yes, 8192 max.
Ethernet Remote I/O (including local/exp. I/O)	(Including local and exp. I/O)
discrete I/O pts.	Map into V-memory Limited by power budget 16,384 (16 fully expanded)
Analog I/O channels	H4-EBC Servers using
Remote I/O channels	V-memory and bit-of-word instructions)
I/O per remote channel	
<b>Performance</b>	
Contact execution (boolean)	0.96 $\mu$ s
Typical scan (1K boolean)	4–5 ms
<b>Programming and Diagnostics</b>	
RLL ladder style	Yes
RLL PLUS/flowchart style (Stages)	Yes/1024
Run time editing	Yes
Supports Overrides	Yes
Variable/fixed scan	Fixed or variable
Instructions	210
Control relays	2048
Timers	256
Counters	256
Immediate I/O	Yes
Subroutines	Yes
For/next loops	Yes
Timed interrupt	Yes
Integer math	Yes
Floating-point math	Yes
Trigonometric functions	Yes
Table instructions	Yes
PID	Yes
Drum sequencers	Yes
Bit of word	Yes
Real-time clock/calendar	Yes
Internal diagnostics	Yes
Password security	Multi-level
System and User error log	Yes
IBox instructions	Yes
<b>CPU Ports Communications</b>	
Built-in ports	4 ports
K-sequence (proprietary protocol)	Yes
DirectNET	Yes
Modbus Client/Server	Yes
ASCII out (Print)	Yes
Maximum baud rate	38.4K
*Battery used for Real Time Clock backup	