DL405 CPU Specifications

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	_D4-454_
System Capacity	
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
Local/local expansion	4224 max.
Serial Remote I/O (including local & exp. I/O	3
Remote I/O Channels	512, 2048
I/O pts. per remote module channel	Yes, 8192 max. (Including local and exp. I/O)
Ethernet Remote I/O (including local/exp. I/O)	Map into V-memory
discrete I/O pts.	Limited by power budget 16,384 (16 fully expanded H4-EBC Servers using V-memory and bit-of-word instructions)
Analog I/O channels	
Remote I/O channels	
I/O per remote channel	
Performance	
Contact execution (boolean)	0.96 µs
Typical scan (1K boolean)	4–5 ms
Programming and Diagnostics	
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
CPU Ports Communications	
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	