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MicroLogix1400 Micro800 Comparison



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 Allen-Bradley • Rockwell Software

Rockwell
Automation

Memory and IO

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Automation**

	1766 MicroLogix 1400	2080-LC10 Micro810	2080-LC20 Micro820	2080-LC30 Micro830	2080-LC50 Micro850	2080-LC70 Micro870
User Program / User Data Space	10K / 10K configurable	2K / 2K	10K /20K	Up to 10K /20K	10K /20K	20K /128K
Data Logging / Recipe Storage	Data logging: up to 128kB *Recipe: up to 64kB	X	MicroSD 32G	X	X	X
Battery Back-up	√	X	X	X	X	X
Back-up Memory Module	√	2080-LCD	MicroSD 32G	2080-MEMBAK- RTC	2080-MEMBAK- RTC	2080-MEMBAK- RTC2
Embedded	Up to 32	12	19	Up to 48	Up to 48	24
Maximum with local expansion	Up to 256	12	35	88	132	304

Additional Functionality

**Rockwell
Automation**

	1766 MicroLogix 1400	2080-LC10 Micro810	2080-LC20 Micro820	2080-LC30 Micro830	2080-LC50 Micro850	2080-LC70 Micro870
Analog	6 Embedded, up to 56 expansion	4 shared with DC input	1 out/ 4 in shared with DC input	Plugin Module	Plugin Module/ Expansion IO	Plugin Module/ Expansion IO
PID	√	√	√	√	√	√
High-Speed Counter	up to 6 @ 100 kHz	X	2080-MOT-HSC	up to 6 @ 100 kHz 2080-MOT-HSC	up to 6 @ 100 kHz 2080-MOT-HSC	up to 4 @ 100 kHz 2080-MOT-HSC
Real Time Clock	√	√	√	2080-MEMBAK- RTC	2080-MEMBAK- RTC	2080-MEMBAK- RTC2
Simple Motion: Pulse Width Modulated/ Pulse Train Out	3 @ 40kHz PWM / 100kHz PTO (DC FET version)	X	1 @ 5kHz PWM	3 @ 100kHz PTO	3 @ 100kHz PTO	2 @ 100kHz PTO
Single Axis Servo Control	Through emb. PTO (FET)	X	X	Motion Instruction	Motion Instruction	Motion Instruction
Data Access Tool	Embedded LCD	2080-LCD	2080-REMLCD	X	X	X
Floating Point Math	√	32 bit/ 64 bit	32 bit/ 64 bit	32 bit/ 64 bit	32 bit/ 64 bit	32 bit/ 64 bit

Communication

**Rockwell
Automation**

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Online Editing	√	√ With CCW develop	√ With CCW develop	√ With CCW develop	√ With CCW develop	√ With CCW develop
RS-232 Ports	(1) 9-pin D-shell(non-isolated) (1) 8-pin Mini DIN(isolated - combowith RS485 port)	X	non-isolated combo serial	non-isolated combo serial	non-isolated combo serial	non-isolated combo serial
RS-485 Ports	(1) 8-pin Mini DIN(isolated – combo with RS232 port)	X	non-isolated combo serial	non-isolated combo serial	non-isolated combo serial	non-isolated combo serial
DH-485	Directly from combo port using 1763-NC01	X	X	X	X	X
DF1 Half-Duplex Master/Slave, Radio Modem	√	X	X	X	X	X
Modbus RTU	Master / Slave	X	Master / Slave	Master / Slave	Master / Slave	Master / Slave
ASCII	√	X	√	√	√	√

Communication and Power

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Automation**

	1766 MicroLogix 1400	2080-LC10 Micro810	2080-LC20 Micro820	2080-LC30 Micro830	2080-LC50 Micro850	2080-LC70 Micro870
DeviceNet Peer to Peer/Slave	w/ 1761-NET-DNI	X	2080-DNET20	2080-DNET20	2080-DNET20	2080-DNET20
DeviceNet Scanner	X	X	√	√	√	√
EtherNet/IP	Embedded and w/ 1761-NET-EN	X	√	X	√	√
Modbus TCP/IP	√	X	√	X	√	√
120/240V AC / 24V DC	√	√	24V	24V	24V	24V
12V DC	X	√	X	X	X	X

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