

# Mercury MP & MR Controller Comparison Chart

	MP4502	MP2500	MP1501	MP1502	MR50-S3	MR52-S3B	MR16IN-S3	MR16OUT-S3	MR62e	MUX8
<b>Open Architecture</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>General</b>										
<b>Ships with MercOS 2.x</b>	✓	✓	✓	✓	--	--	--	--	--	--
<b>Number of Openings Managed Max</b>	64	64	17	64	1	2	--	--	2	--
<b>Number of Readers Managed Max</b>	64	64	17	64	--	--	--	--	--	--
<b>Number of Downstream RS485 IO Ports</b>	2	2	1	1	--	--	--	--	--	8
<b>Number of IO Modules Max</b>	32	32	8	32	--	--	--	--	--	--
<b>Number of Readers Directly Connected Max</b>	4	0	2	4	2	4	--	--	4	--
<b>Power Cycle MP Reader Port Remotely</b>	✓ (pending FW)	✓ (pending FW)	✓ (pending FW)	✓ (pending FW)	--	--	--	--	--	--
<b>Cardholder Max</b>	2,000,000	600,000	240,000	240,000	--	--	--	--	--	--
<b>Event Transaction Buffer Capacity</b>	500,000	500,000	500,000	500,000	--	--	--	--	--	--
<b>Access Levels per Cardholder</b>	255	255	255	255	--	--	--	--	--	--
<b>Inputs Managed Max</b>	1024	1024	130	520	--	--	--	--	--	--
<b>Outputs Managed Max</b>	1024	1024	130	516	--	--	--	--	--	--
<b>Number of On-Board General Purpose Inputs</b>	8	0	2	8	2	8	16	0	6	0
<b>Number of On-Board General Purpose Outputs</b>	4	0	2	4	2	6	2	16	4	16
<b>Relay Rating Max @ 30VDC</b>	5A	--	2A	5A	5A/2A	5A	5A	5A	2A	5A
<b>Micro USB Port</b>	✓	✓	✓	✓	--	--	--	--	--	--
<b>microSD or microSDHC Card (2GB - 8GB)</b>	✓	✓	✓	✓	--	--	--	--	--	--
<b>Electrical</b>										
<b>12 VDC Consumption Max</b>	500 mA	500 mA	1.8 A	500 mA	150 mA	550 mA	350 mA	1100 mA	1.7 A	350 mA
<b>802.11at PoE Consumption Max</b>	--	--	12.95 W	--	--	--	--	--	12.95 W	--
<b>802.11af PoE+ Consumption Max</b>	--	--	25 W	--	--	--	--	--	25 W	--
<b>12 VDC Lock/Reader Power Max using PoE +</b>	--	--	1.25 A	--	--	--	--	--	1.25 A	--
<b>Reader Power Out per Port Max</b>	600mA	--	600mA	600mA	300mA	300mA	--	--	300mA	--
<b>Micro USB Port Power Out</b>	5 VDC	5 VDC	5 VDC	5 VDC	--	--	--	--	--	--
<b>Super Capacitor Memory/ Clock Backup</b>	✓	✓	✓	✓	--	--	--	--	--	--
<b>CR2330 Battery Memory/Clock Backup*</b>	✓	✓	✓	✓	--	--	--	--	--	--
<b>Security and Network</b>										
<b>Ethernet Speed (Mbps)</b>	10/100	10/100	10/100	10/100	--	--	--	--	10/100	--
<b>Internet Protocol</b>	v4/v6	v4/v6	v4/v6	v4/v6	--	--	--	--	v4/v6	--
<b>Dual IP Connectivity (using adapter)</b>	✓	✓	✓	✓	--	--	--	--	--	--
<b>OSDP Secure Channel for On-Board Reader Ports</b>	✓	N/A	✓	✓	✓	✓	--	--	✓	--
<b>Crypto Memory Chip</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	--
<b>Upstream Encryption</b>	TLS / AES	TLS / AES	TLS / AES	TLS / AES	AES	AES	AES	AES	AES	--
<b>Peer Certificate Loading</b>	✓	✓	✓	✓	--	--	--	--	✓	--
<b>IP Device Management via SNMP</b>	✓	✓	✓	✓	--	--	--	--	✓	--
<b>IP Device Discovery via Zeroconf (mDNS)</b>	✓	✓	✓	✓	--	--	--	--	✓	--
<b>Port Based Access Control using 802.1X (EAP-TLS)</b>	✓	✓	✓	✓	--	--	--	--	--	--
<b>NIST Certified Encryption (FIPS 140-3)</b>	✓	✓	✓	✓	--	--	--	--	--	--
<b>ARM TrustZone Security</b>	✓	✓	✓	✓	--	--	--	--	--	--
<b>Secure Boot Processor</b>	✓	✓	✓	✓	--	--	--	--	--	--
<b>Data Encryption at Rest</b>	✓	✓	✓	✓	--	--	--	--	--	--
<b>Third Party Integrations and Applications</b>										
<b>Future-ready Secure APP Environment</b>	✓	✓	✓	✓	--	--	--	--	--	--
<b>Elevator Destination Dispatch</b>	✓	--	--	--	--	--	--	--	--	--
<b>BACnet/IP Building Control Integration</b>	✓	--	--	--	--	--	--	--	--	--
<b>FICAM Strong Authentication for FIPS-201 US Gov.</b>	✓ (pending FW)	--	--	--	--	--	--	--	--	--
<b>Wireless Lock Hub Support</b>	✓	✓	✓	✓	--	--	--	--	--	--
<b>Power Supply Alerts and Events</b>	✓	✓	✓	✓	--	--	--	--	--	--
<b>Environmental / Mechanical</b>										
<b>Storage Temperature (° C)</b>	-55° to 85°	-55° to 85°	-55° to 85°	-55° to 85°	-55° to 85°	-55° to 85°	-55° to 85°	-55° to 85°	-55° to 85°	-55° to 85°
<b>Operating Temperature (° C)</b>	0° to 70°	0° to 70°	0° to 70°	0° to 70°	0° to 70°	0° to 70°	0° to 70°	0° to 70°	0° to 70°	0° to 70°
<b>Humidity (RHNC)</b>	5 to 95%	5 to 95%	5 to 95%	5 to 95%	5 to 95%	5 to 95%	5 to 95%	5 to 95%	5 to 95%	5 to 95%
<b>Dimensions (W x L x H mm)</b>	203 x 152 x 25	127 x 152 x 25	140 x 70 x 24	203 x 152 x 25	70 x 108 x 25	203 x 152 x 25	203 x 152 x 25	203 x 152 x 25	140 x 70 x 24	127 x 152 x 25

\* CR2330 Battery not included