MP SERIES INTELLIGENT CONTROLLERS & MR IO MODULES

Mercury MP & MR Controller Comparison Chart

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

part of HID

© 2024 HID Global Corporation, part of ASSA ABLOY. All trademarks are owned by HID Global Corporation, ASSA ABLOY and/or their respective owners and may not be used without permission. All rights reserved. 2026-10-19-pacs-mercury-mp-mr-controllers-cc-en