



**MTBF Calculations**  
**January, 2019**

Product	Description	MTBF (Hours)	Operating Temp Range
<b>SIO Devices</b>			
MR16IN	16 input panel	>150,000	0 to 70 C
MR16OUT	16 output panel	>150,000	0 to 70 C
MR50	Single reader interface panel	>150,000	-40 to 75 C
MR52	Two read interface panel	>150,000	0 to 70 C
MR51e	Single reader interface panel	>150,000	0 to 70 C
MR16IN-s3	16 input panel	>150,000	0 to 70 C
MR16OUT-s3	16 output panel	>150,000	0 to 70 C
MR50-s3	Single reader interface panel	>150,000	-40 to 75 C
MR52-s3	Reader interface panel	>150,000	0 to 70 C
MR62e	Reader Interface Module w/ PoE+ (2 Rdrs, 6 Inputs, 4 Outputs)	>150,000	0 to 70 C
<b>Intelligent Controllers</b>			
EP1501	Access Control Platform for interfacing a single door opening	>150,000	0 to 70 C
EP1502	Access Control Platform for controlling 2 to 64 doors	>150,000	0 to 70 C
EP2500	Access Control Platform for controlling 64 openings	>150,000	0 to 70 C
EP4502	Access Control Platform for controlling 2 to 64 access points	>150,000	0 to 70 C
LP1501	PoE+ Edge-capable Intelligent Controller	>150,000	0 to 70 C
LP1502	Intelligent Controller (2 Rdrs, 8 Inputs, 4 Outputs)	>150,000	0 to 70 C
LP2500	Intelligent Controller (No Onboard IO)	>150,000	0 to 70 C
LP4502	Intelligent Controller w/ Extended Applications	>150,000	0 to 70 C
<b>M5 Bridge</b>			
M5-IC	Intelligent System Controller	>150,000	0 to 70 C
M5-16DO	Output Control Module	>150,000	0 to 70 C
M5-16DOR	Output Control Module	>150,000	0 to 70 C
M5-20IN	Input Control Module	>150,000	0 to 70 C
M5-2RP	Dual Reader Interface Module	>150,000	0 to 70 C
M5-2SRP	Dual Reader Interface Module	>150,000	0 to 70 C
M5-8RP	Eight Reader Interface Module	>150,000	0 to 70 C
M5-2K	Four Reader Interface Module	>150,000	0 to 70 C
M5-COM	Power/ Communications Module	>150,000	0 to 70 C
<b>MS Bridge</b>			



<b>MS-ICS</b>	<b>Intelligent System Controller</b>	<b>&gt;150,000</b>	<b>0 to 70 C</b>
<b>MS-I8S</b>	<b>Input Control Module</b>	<b>&gt;150,000</b>	<b>0 to 70 C</b>
<b>MS-R8S</b>	<b>Output Control Module</b>	<b>&gt;150,000</b>	<b>0 to 70 C</b>
<b>MS-ACS</b>	<b>Eight Reader Interface Module</b>	<b>&gt;150,000</b>	<b>0 to 70 C</b>
<b>MI Bridge</b>			
<b>MI-RS4</b>	<b>Intelligent System Controller, 4 Reader Interface</b>	<b>&gt;150,000</b>	<b>0 to 70 C</b>
<b>MI-XL16</b>	<b>Intelligent System Controller</b>	<b>&gt;150,000</b>	<b>0 to 70 C</b>
<b>Accessories</b>			
<b>MUX8</b>	<b>8 port Device Multiplexer</b>	<b>&gt;150,000</b>	<b>0 to 70 C</b>
<b>Readers</b>			
<b>MR5</b>	<b>Magnetic Stripe Card Reader</b>	<b>&gt;100,000</b>	<b>-40 to 70 C</b>
<b>MR10</b>	<b>Magnetic Stripe Card Reader</b>	<b>&gt;100,000</b>	<b>-40 to 70 C</b>
<b>MR20</b>	<b>Magnetic Stripe Card Reader</b>	<b>&gt;100,000</b>	<b>-40 to 70 C</b>
<b>MRDT</b>	<b>Display Command keypad</b>	<b>&gt;100,000</b>	<b>0 to 70 C</b>
	<b>NA- Due to recent release date of product</b>		