



Sentinel HL

HASP Configuration Keys	Basic	Pro	Max	Max	Net
Form Factor	Mini	Mini	Mini	Micro	Mini
Security And Cryptographic Algorithms					
Unique 32-Bit ID		✓	✓	✓	✓
AES 128-Bit Encryption	✓	✓	✓	✓	✓
64,000 Encryption Keys		✓	✓	✓	✓
LICENSING MODELS SUPPORT					
Perpetual	✓	✓	✓	✓	✓
Feature-Based		✓	✓	✓	✓
Pay-Per-Use		✓	✓	✓	✓
Network Concurrency					
Time-Based					
Custom or Remote Desktop		✓	✓	✓	✓
Clock					
Real Time Clock					
Battery Life Warranty					
Real Time Clock Accuracy (at 25° ± 5°C)					
Memory					
Protected Read / Write Memory		112 Bytes	4KB	4KB	4KB
Read Only Memory (ROM)		112 Bytes	2KB	2KB	2KB
Backward Compatibility Memory		112 Bytes	4KB	4KB	4KB
Data Retention	At Least 10 Years				
Write Cycles (EEPROM / Flash)	At Least 1,000,000				
Max. licensable modules (Features, depending on license complexity)		39	231	231	231
Flash (Read / Write) per second					
Flash Memory					
Physical Specifications					
Default Color	Blue	Purple	Green	Green	Red
Plastic Case Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Operating Temperature	-25°C to 85°C -13°F to 185°F	-25°C to 85°C -13°F to 185°F	-25°C to 85°C -13°F to 185°F	-25°C to 85°C -13°F to 185°F	-25°C to 85°C -13°F to 185°F
Humidity Rating	0-95%	0-95%	0-95%	0-95%	0-95%
Power Consumption - operating / standby	50mA / <0.5 mA	50mA / <0.5 mA	50mA / <0.5 mA	50mA / <0.5 mA	50mA / <0.5 mA
Dimensions L x W x H (in mm)	40.5 x 16 x 8	40.5 x 16 x 8	40.5 x 16 x 8	18 x 12.2 x 4.5	40.5 x 16 x 8
Weight (in grams)	5.63	5.63	5.63	1.64	5.63
Certification					
Safety Certifications	IEC 60950-1, EN 60950-1, UL 60950-1, CAN/CSA-C22.2 NO.60950-1A, AS/NZS 60950.1				
Certification / Compliance	RoHS, WEEE, REACH				
EMC Certifications	CE, FCC, VCCI, KCC-REM-SFNHLM _{ax}	CE, FCC, VCCI, KCC-REM-SFNHLM _{ax}	CE, FCC, KCC, VCCI	CE, FCC, VCCI, KCC-REM-SFNHLM _{ax} Micro	CE, FCC, VCCI, KCC-REM-SFNHLM _{ax}

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HASP Configuration Keys	Time	NetTime	Drive microSD**	Max	Max
Form Factor	Midi	Midi	Midi	Chip	ExpressCard
Security And Cryptographic Algorithms					
Unique 32-Bit ID	✓	✓	✓	✓	✓
AES 128-Bit Encryption	✓	✓	✓	✓	✓
64,000 Encryption Keys	✓	✓	✓	✓	✓
Licensing Models Support					
Perpetual	✓	✓	✓	✓	✓
Feature-Based	✓	✓	✓	✓	✓
Pay-Per-Use	✓	✓	✓	✓	✓
Network Concurrency		✓			
Time-Based	✓	✓			
Custom or Remote Desktop	✓	✓	✓	✓	✓
Clock					
Real Time Clock	✓	✓			
Battery Life Warranty	4 Years	4 Years			
Real Time Clock Accuracy (at 25° ± 5°C)	≤12.8 minutes/year	≤12.8 minutes/year			
Memory					
Protected Read / Write Memory	4KB	4KB	4KB	4KB	4KB
Read Only Memory (ROM)	2KB	2KB	2KB	2KB	2KB
Backward Compatibility Memory	4KB	4KB	4KB		4KB
Data Retention	At Least 10 Years				
Write Cycles (EEPROM / Flash)	At Least 1,000,000				
Max. licensable modules (Features, depending on license complexity)	231	231	231	231	231
Flash (Read / Write) per second			* depends on microSD card		
Flash Memory			Support MicroSD card up to 64GB		
Physical Specifications					
Default Color	Black	Red	Green	Black	Silver Metal
Plastic Case Material	Polycarbonate	Polycarbonate	Polycarbonate		Polycarbonate/ Stainless Steel
Operating Temperature	-20°C to 60°C -4°F to 140°F	-20°C to 60°C -4°F to 140°F	0°C to 60°C -32°F to 140°F	-25°C to 85°C -13°F to 185°F	-25°C to 85°C -13°F to 185°F
Humidity Rating	0-95%	0-95%	0-95%	0-95%	0-95%
Power Consumption - operating / standby	50mA / <0.5 mA	50mA / <0.5 mA	200mA max	20mA / <0.5 mA	25mA / <0.5 mA
Dimensions L x W x H (in mm)	52 x 16 x 8	52 x 16 x 8	52 x 15 x 8	8.2 x 5.3 x 2.1	75 x 34 x 5
Weight (in grams)	7.36	7.36	6.98	N/A	15
Certification					
Safety Certifications	IEC 60950-1, EN 60950-1, UL 60950-1, CAN/CSA-C22.2 NO.60950-1A, AS/NZS 60950.1			EN60950	IEC 60950-1, EN 60950-1, UL 60950-1, AS/NZS 60950.1
Certification / Compliance	RoHS, WEEE, REACH			RoHS; REACH	RoHS, WEEE, REACH
EMC Certifications	CE, FCC, KCC, VCCI	CE, FCC, VCCI, KCC-REM-SFNHLTime	CE, FCC, VCCI		CE, FCC, KCC, VCCI

**Supported only with Sentinel LDK 7.4 and later.

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