Sentinel® HL

Hardware-Based Protection Keys

Hardware-Based Protection Keys	Basic	Pro	Max	Max	Max	Max	Net	Time	NetTime	Drive
SECURITY AND CRYPTOGRAPHIC ALGORITHMS										
Unique 32-Bit ID		✓	✓	✓	✓	✓	✓	✓	✓	✓
AES 128-Bit Encryption	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
64,000 Encryption Keys	1	✓	✓	✓	✓	✓	✓	✓	✓	✓
LICENSING MODELS SUPPORT										
Perpetual	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Feature-Based		✓	✓	✓	✓	✓	✓	✓	✓	✓
Pay-Per-Use		✓	✓	✓	✓	✓	✓	✓	✓	✓
Network Concurrency							✓			✓
Time-Based								✓	✓	
Custom		✓	✓	✓	✓	✓	✓	✓	✓	✓
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		112 Bytes	4KB	4KB	4KB	4KB	4KB	4KB	4KB	4KB
Read Only Memory (ROM)		112 Bytes	2KB	2KB	2KB	2KB	2KB	2KB	2KB	2KB
Backwards Compatibility Memory		112 Bytes	4KB	4KB	4KB		4KB	4KB	4KB	4KB
Data Retention		At Least 10 Years	At Least 10 Years	At Least 10 Years	At Least 10 Years	At Least 10 Years	At Least 10 Years	At Least 10 Years	At Least 10 Years	At Least 10 Years
Write Cycles (EEPROM / Flash)		At Least 1,000,000	At Least 1,000,000	At Least 1,000,000	At Least 1,000,000	At Least 1,000,000	At Least 1,000,000	At Least 1,000,000	At Least 1,000,000	At Least 1,000,000/10,000
Max. licensable modules (Features) per key - HASP Configuration		11-39 (depending on license complexity)	57-231 (depending on license complexity)	57-231 (depending on license complexity)	57-231 (depending on license complexity)	57-231 (depending on license complexity)	57-231 (depending on license complexity)	57-231 (depending on license complexity)	57-231 (depending on license complexity)	57-231 (depending on license complexity)
Max. licensable modules (Features) per key - Driverless Configuration		11-39 (depending on license complexity)	240-2160 (depending on license complexity)	240-2160 (depending on license complexity)	240-2160 (depending on license complexity)	240-2160 (depending on license complexity)	N/A	240-2160 (depending on license complexity)	N/A	240-2160 (depending on license complexity)
Flash (Read / Write) per second										12MB / 5 MB
Flash Memory										2GB or 4GB
Flash (Read / Write) per second										12MB / 5 MB
PHYSICAL SPECIFICATIONS										
Available Configuration	HASP, Driverless	HASP, SuperPro, Driverless	HASP, SuperPro XM, Driverless, Hardlock	HASP, SuperPro XM, Driverless, Hardlock	HASP, Driverless	Driverless	HASP, SuperPro, Driverless, Hardlock	HASP, Driverless	HASP, Driverless	HASP, Driverless
Default Color	Blue	Purple	Green	Green	Silver Metal	N/A	Red	Black	Red	Green
Form Factor	Mini	Mini	Mini	Micro	ExpressCard	SOIC 8	Mini	Midi	Midi	Maxi
Plastic Case Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate/ Stainless Steel	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	-25°C to 85°C -13°F to 185°F	-25°C to 85°C -13°F to 185°F	-20°C to 60°C -4°F to 140°F	-20°C to 60°C -4°F to 140°F	0°C to 70°C 32°F to 158°F
Humidity Rating (without condensation)	0-95%	0-95%	0-95%	0-95%	0-95%	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	25mA / < 0.5 mA	20mA / < 0.5 mA	50mA / < 0.5 mA	50mA / < 0.5 mA	50mA / < 0.5 mA	200mA Typical
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	75 x 34 x 5	8.2 X 5.3 X 2.1	40.5 x 16 x 8	52 x 16 x 8	52 x 16 x 8	68 X 18.6 X 8.2
Weight (in grams)	5.63	5.63	5.63	1.64	15	N/A	5.63	7.36	7.36	10.25
CERTIFICATIONS										
Safety Certifications	EN60950	EN60950	EN60950	EN60950	EN60950	EN60950	EN60950	EN60950	EN60950	EN60950
Certification / Compliance	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE	RoHS	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE
Certifications	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC
MANUFACTURER'S WARRANTY										
Manufacturing & Material Defects					1-Year					

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SENTINEL SOFTWARE MONETIZATION SOLUTIONS

Sentinel HL Data Sheet