



SentinelHASP[®] HL



Hardware-Based Protection Keys	Basic	Pro	Max	Max Micro	Net	Time	NetTime	Drive	Express Card
SECURITY AND CRYPTOGRAPHIC ALGORITHMS									
Unique 32-Bit ID		✓	✓	✓	✓	✓	✓	✓	✓
Secure Communication Channel	✓	✓	✓	✓	✓	✓	✓	✓	✓
AES 128-Bit Encryption	✓	✓	✓	✓	✓	✓	✓	✓	✓
Remote Update - RSA Digital Signature	✓	✓	✓	✓	✓	✓	✓	✓	✓
64,000 Encryption Keys		✓	✓	✓	✓	✓	✓	✓	✓
SUPPORT LICENSING MODELS									
Perpetual	✓	✓	✓	✓	✓	✓	✓	✓	✓
Feature-Based		✓	✓	✓	✓	✓	✓		
Pay-Per-Use		✓	✓	✓	✓	✓	✓		
Network Concurrency					✓	✓	✓	✓	✓
Time-Based (subscription & rental)						✓	✓		
Custom		✓	✓	✓	✓	✓	✓	✓	✓
CLOCK									
On-Key Clock					✓	✓			
Battery Life Warranty					4-Year	4-Year			
MEMORY									
Flash Memory								2GB or 4GB	
Protected Read / Write Memory		112 Bytes	4KB	4KB	4KB	4KB	4KB	4KB	4KB
Read Only Memory (ROM)		112 Bytes	2KB	2KB	2KB	2KB	2KB	2KB	2KB
Backward Compatibility Memory		112 Bytes	4KB	4KB	4KB	4KB	4KB	4KB	4KB
Data Retention					At Least 10 Years				
Write Cycles (EEPROM / Flash)				At Least 1,000,000				At least 1,000,000/10,000	At Least 1,000,000
Max. Features/Applications Enabled per Key		39	231	231	231	231	231	231	231
Flash Speed (Read / Write) per Sec.							12 MB 5 MB		
PHYSICAL SPECIFICATIONS									
Catalog Number	08303	08304	08305	22544	10 Users- 08306 50 Users- 08307 250+ Users- 08308	08310	10 Users- 08313 50 Users- 08314 250+ Users- 08315	2GB-08861 4GB-09526	20615
Default Color***	Blue	Purple	Green	Green	Red	Black	Red	Green	Silver Metal
Connection Type	USB Type A								ExpressCard/34
Lines Used	Power, Ground, 2 for Data								
Plastic Case Material	Lexan 500R			GE Lexan 940A		Lexan 500R		CYCOLOY C6600	Polycarbonate/ABS and Stainless Steel SUS304
Storage Temperature	0°C to 70°C / 32°F to 158°F								
Operating Temperature	0°C to 70°C / 32°F to 158°F					0°C to 70°C / 32°F to 158°F		0°C to 65°C / 32°F to 149°F	
Humidity Rating (without condensation)	0-95%								
Power Consumption – operating / standby	50 mA / < 0.5 mA			30mA/ <0.5mA		50 mA / < 0.5 mA		200mA Typical	25 mA / < 0.5 mA
Dimensions L x W x H (in mm)	40.5*16*8			19.1*15.6*7.6	40.5*16*8		52*16*8	74 2*11 3*28 6	75*34*5
Weight (in grams)	4.4			2.03		4.4		14.4	15
CERTIFICATION									
USB					USB-IF				Express Card
Safety Certifications					EN60950				
Environmental Certification /Compliance					RoHS, WEEE				
Certification	CE, FCC, VCCI (Japan), KCC (South Korea)			CE, FCC	CE, FCC, VCCI (Japan), KCC (South Korea)			CE, FCC	CE, FCC, VCCI (Japan)
MANUFACTURER'S WARRANTY									
Covers Manufacturing & Material Defects					1-Year				

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