



Sentinel Keys	Basic	Pro	Max	Time	Max
Form Factor	Mini	Mini	Mini	Midi	Board
Security And Cryptographic Algorithms					
Unique 32-Bit ID		✓	✓	✓	✓
AES 128-Bit Encryption	✓	✓	✓	✓	✓
64,000 Encryption Keys	1	✓	✓	✓	✓
On Chip Execution (AppOnChip-32bit & 64bit Win)	✓*	✓*	✓	✓	✓
Licensing Models Support					
Perpetual	✓	✓	✓	✓	✓
Feature-Based		✓	✓	✓	✓
Pay-Per-Use		✓	✓	✓	✓
Network Concurrency		✓*	✓*	✓*	✓*
Time-Based		✓*	✓	✓	✓
Custom		✓	✓	✓	✓
Clock					
Real Time Clock				✓	
V-Clock		✓*	✓	✓	✓
Battery Life Warranty				4-Years	
Real Time Clock Accuracy (at 25° ± 5° C)				≤12.8 minutes/year	
Memory					
Protected Read / Write Memory		112 Bytes	4KB	4KB	4KB
Read Only Memory (ROM)		112 Bytes	2KB	2KB	2KB
Dynamic Memory			390KB	390KB	25KB
Data Retention		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
Max. licensable modules (Features, depending on license complexity)		11-39	3484-24386	3484-24386	240-2160
Flash (Read / Write) per second					
Flash Memory					
Physical Specifications					
Default Color	Blue	Purple	Green	Black	Black
Plastic Case Material	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	-20° C to 60° C -4° F to 140° 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	20mA / < 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	52 x 16 x 8	15.2x8x12.4
Weight (in grams)	5.63	5.63	5.63	7.36	1.23
Certification					
Safety Certifications	IEC 62368-1, EN 62368-1, AS/NZS 62368.1, CSA/UL 62368-1	IEC 62368-1, EN 62368-1, AS/NZS 62368.1, CSA/UL 62368-1	IEC 62368-1, EN 62368-1, AS/NZS 62368.1, CSA/UL 62368-1	IEC 62368-1, EN 62368-1, AS/NZS 62368.1, CSA/UL 62368-1	IEC 60950-1, EN 60950-1, AS/NZS 60950.1, CAN/CSA 60950-1, UL 60950-1
Certification / Compliance	RoHS, WEEE, REACH, ECCN(EAR99)	RoHS, WEEE, REACH, ECCN(EAR99)	RoHS, WEEE, REACH, ECCN(EAR99)	RoHS, WEEE, REACH, ECCN(EAR99)	RoHS, WEEE, REACH, ECCN(EAR99)
EMC Certifications	CE, FCC, VCCI	CE, FCC, VCCI	CE, FCC, VCCI	CE, FCC, VCCI	CE, FCC, VCCI



Sentinel Keys	Max	Max	Drive microSD**	Software License
Form Factor	Micro	Chip	Midi	
Security And Cryptographic Algorithms				
Unique 32-Bit ID	√	√	√	
AES 128-Bit Encryption	√	√	√	√
64,000 Encryption Keys	√	√	√	√
On Chip Execution (AppOnChip-32bit & 64bit Win)	√	√	√	
Licensing Models Support				
Perpetual	√	√	√	√
Feature-Based	√	√	√	√
Pay-Per-Use	√	√	√	√
Network Concurrency	√*	√*	√*	√* (Only AM-SL)
Time-Based	√	√	√	√
Custom	√	√	√	√
Clock				
Real Time Clock				
V-Clock	√	√	√	√
Battery Life Warranty				
Real Time Clock Accuracy (at 25° ± 5 °C)				
Memory				
Protected Read / Write Memory	4KB	4KB	4KB	4KB
Read Only Memory (ROM)	2KB	2KB	2KB	2KB
Dynamic Memory	390KB	390KB	390KB	
Data Retention	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	
Max. licensable modules (Features, depending on license complexity)	3484-24386	3484-24386	3484-24386	
Flash (Read / Write) per second			Depends on microSD card	
Flash Memory			Support microSD card up to 64GB	
Physical Specifications				
Default Color	Green	Black	Green	
Plastic Case Material	Polycarbonate		Polycarbonate	
Operating Temperature***	-40° C to 85° C -40° F to 185° F	-40° C to 105° C -40° F to 221° F	0° C to 60° C 32° F to 140° F	
Humidity Rating	0 - 95%	0 - 95%	0-95%	
Power Consumption - operating / standby	50mA/<0.5mA	20mA/<0.5mA	200mA max	
Dimensions L x W x H (in mm)	18x12.2x4.5	5.0x5.0x0.9	52x16x8	
Weight (in grams)	1.64	NA	6.98	
Certification				
Safety Certifications	IEC 62368-1, EN 62368-1, AS/NZS 62368.1, CSA/UL 62368-1		IEC 62368-1, EN 62368-1, AS/NZS 62368.1, CSA/UL 62368-1	
Certification / Compliance	RoHS, WEEE, REACH, ECCN(EAR99)	RoHS, REACH, ECCN(EAR99)	RoHS, WEEE, REACH, ECCN(EAR99)	ECCN(EAR99)
EMC Certifications	CE, FCC, VCCI		CE, FCC, VCCI	

* Requires a paid upgrade.

** Supported only with Sentinel LDK 7.4 and later.

*** The host USB port which powers the hardware key should be compliant with LPS (Limited Power Source) requirement in IEC 62368-1 clause 2.5. The operating temperature of the hardware keys is up to 85°C, and to avoid scalding do not touch the keys with hands directly when the environment temperature is higher than 50°C.

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