

Sentinel HL



| Driverless Configuration Keys | Basic | Pro | Max | Max | Time | Max | Max | Max | Drive microSD** |
|---|---|---|---|---|---|---|---|---|---|
| FORM FACTOR | Mini | Mini | Mini | Micro | Midi | Board | ExpressCard | Chip | Midi |
| 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 | 4KB | 4KB | 4KB | 4KB |
| Read Only Memory (ROM) | | 112 Bytes | 2KB | 2KB | 2KB | 2KB | 2KB | 2KB | 2KB |
| Dynamic Memory | | | 25KB | 25KB | 25KB | 25KB | 25KB | 25KB | 25KB |
| 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 |
| 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 |
| Max. licensable modules (Features, depending on license complexity) | | 11-39 | 240-2160 | 240-2160 | 240-2160 | 240-2160 | 240-2160 | 240-2160 | 240-2160 |
| Flash (Read / Write) per second | | | | | | | | | * depends on microSD card |
| Flash Memory | | | | | | | | | Support microSD card up to 64GB |
| PHYSICAL SPECIFICATIONS | | | | | | | | | |
| Default Color | Blue | Purple | Green | Green | Black | Black | Silver Metal Polycarbonate /Stainless Steel | Black | Green |
| Plastic Case Material | Polycarbonate | Polycarbonate | Polycarbonate | Polycarbonate | Polycarbonate | Polycarbonate | Polycarbonate /Stainless Steel | 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 | -20°C to 60°C -4°F to 140°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 | 0°C to 60°C 32°F to 140°F |
| Humidity Rating | 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 | 50mA / < 0.5 mA | 20mA / < 0.5 mA | 25mA / < 0.5 mA | 20mA / < 0.5 mA | 200mA max |
| 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 | 52 x 16 x 8 | 15.2x8x12.4 | 75 x 34 x 5 | 8.2 X 5.3 X 2.1 | 52x16x8 |
| Weight (in grams) | 5.63 | 5.63 | 5.63 | 1.64 | 7.36 | 1.23 | 15 | N/A | 6.98 |
| CERTIFICATION | | | | | | | | | |
| Safety Certifications | IEC 60950-1, EN 60950-1, UL 60950-1, CAN/CSA-C22.2 NO.60950-1A, AS/ NZS 60950.1 | IEC 60950-1, EN 60950-1, UL 60950-1, CAN/CSA-C22.2 NO.60950-1A, AS/ NZS 60950.1 | IEC 60950-1, EN 60950-1, UL 60950-1, CAN/CSA-C22.2 NO.60950-1A, AS/ NZS 60950.1 | IEC 60950-1, EN 60950-1, UL 60950-1, CAN/CSA-C22.2 NO.60950-1A, AS/ NZS 60950.1 | IEC 60950-1, EN 60950-1, UL 60950-1, CAN/CSA-C22.2 NO.60950-1A, AS/ NZS 60950.1 | IEC 60950-1, EN 60950-1, UL 60950-1, CAN/CSA-C22.2 NO.60950-1A, AS/ NZS 60950.1 | IEC 60950-1, EN 60950-1, UL 60950-1, CAN/CSA-C22.2 NO.60950-1A, AS/ NZS 60950.1 | IEC 60950-1, EN 60950-1, UL 60950-1, AS/NZS 60950.1 | IEC 60950-1, EN 60950-1, UL 60950-1, AS/NZS 60950.1 |
| Certification / Compliance | RoHS, WEEE, REACH | RoHS, WEEE, REACH | RoHS, WEEE, REACH | RoHS, WEEE, REACH | RoHS, WEEE, REACH | RoHS, WEEE, REACH | RoHS, WEEE, REACH | RoHS, REACH | RoHS, WEEE, REACH |
| EMC Certifications | CE, FCC, VCCI | CE, FCC, VCCI | CE, FCC, VCCI | CE, FCC, VCCI | CE, FCC, VCCI | CE, FCC, VCCI | CE, FCC, VCCI | CE, FCC, VCCI | CE, FCC, VCCI |

*Requires a paid upgrade.

**Supported only with Sentinel LDK 7.4 and later.