

Microchip's SEC1100/1200 are low-cost, low-power, single-chip Smart Card controllers with USB, SPI or UART interfaces. Using a combination of hardware and software, these devices deliver high-performance and flexible design customization options. Both devices utilize Microchip's TrustSpan™ technology which enables digital systems to securely communicate, process, move and store information on system boards, across networks and through the cloud. Up-to-date EMV and USB certifications enhance interoperability with all of the latest and legacy Smart Cards and host operating systems. Ready-to-use USB Chip Card Interface Device (CCID) firmware provides a fast and easy platform to develop custom applications and one-time programmable (OTP) memory offers the flexibility of custom firmware or vendor-specific device data. The OTP memory can be fully or partially programmed by Microchip during chip manufacturing and by the customer during final product assembly. Package options range from a small-footprint 16-pin QFN to our SEC1202 which offers a 48-pin QFN with dual Smart Card interfaces, dual SPI, UART, dual LED and general purpose IOs for high-value designs. Additionally, Microchip's complimentary and confidential USBCheck™ online design review service is available for customers who select the SEC1100/120x family for their application design-in.*



*The **USBCheck online design review** service is subject to Microchip's Program Terms and Conditions and requires a myMicrochip account.

Features

Highlights

- Single or dual smart card interfaces
 - ISO/IEC 7816
 - EMV-certified
- USB, SPI or UART host interface
- Dedicated hardware for performance
- 8051 controller for flexibility
- Low standby and dynamic power
- OTP memory for code and custom configuration data
- Software development kit (SDK) with full source code
- Low BOM cost
 - Single-chip USB solution
 - Class A/B/C - no external level shifter
 - Integrated oscillator - no external crystal
- Customized during chip manufacturing
 - Custom firmware
 - Vendor-specified USB descriptors
 - Unique serial number

Target Applications

- PC-Link Reader
- User Authentication
- Thin/Zero-Client
- Windows® Smart Card Login
- Point-of-Sale (POS)
- Counterfeit Device Detection
- Network Access Security
- Software Licensing Keys

- Documentation & Software

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