athena
Smartcard Solutions

ASEDrive IIIe PC/SC Smart Card Readers

ASEDrive IIIe Models
All ASEDrive IIIe models are based on the same reliable Athena technology.

ASEDrive IIIe USB or Serial
Get the most out of your smart card.
The perfect desktop smart card reader is now available at the right price. It is small and elegant, has landing contacts for a longer card life, accepts embossed cards,and offers user friendly Plug & Play installation and operation.

ASEDrive IIIe KB
Space saving, high performance keyboard reader.
Benefit from two great products in one!
Our leading smart card reader technology integrated into a high quality keyboard.
No more compromising.

ASEDrive IIIe Internal USB or Serial
The invisible reader...
Whether you need to conserve desk space or achieve better hardware integration, our PC internal readers will do the job with the same high-performance, ease of operation and use. Simply slide it into a free drive bay, and you are ready to go!

The ASEDrive IIIe is Athena's most advanced family of smart card readers/writers. The ASEDrive IIIe offers the best cost and performance available today while assuring the highest level of compatibility. ASEDrive IIIe is certified by both USB Implementers Forum and Microsoft WHQL. ASEDrive IIIe is low in cost but provides the quality and functionality that professionals require. This makes ASEDrive IIIe ideal for consumer use and large scale corporate and government smart card applications.

- Complies with all major standards including; PC/SC, ISO7816 (T=0, T=1), EMV, JIS X6303/6304, PC/SC, memory cards.
- High speed communication with PC through USB 2.0 (full speed) or Serial Port.
- On-board flash memory for easy upgrading.
- Special EEPROM area for registering unique protected information for each reader or batch of readers.
- Support of selectable clock frequency and high card-reader communication speed.
- Certified by USB Implementers Forum and Microsoft WHQL.
- Supports all major PC operating systems including: Windows XP, 2000, 2003 Server Me, 98, NT4*, Linux, MAC OS X.
  * Serial/KB models only

High performance and low cost smart card reader
ASEDrive IIIe is a high performance and low cost Smart Card reader with contact interface designed to work with personal computers. Adopting state-of-theart technologies, ASEDrive IIIe provides the highest level of performance in a small package. ASEDrive IIIe fully complies with the PC/SC standard and can be seamlessly integrated within the Windows and Linux environments. It supports CPU smartcards based on international and industry standards such as ISO, EMV, and JICSAP, as well as low cost memory cards.

Complies with all major standards and certifications
ASEDrive IIIe complies with all major international and industry standards such as ISO7816, Microsoft PC/SC, EMV, JIS X6303/6304, and is suitable for any smart card application without compromise. In the Windows environment ASEDrive IIIe is certified as Designed for XP logo by Microsoft. It is also certified by USB Implementers Forum as a USB Full 2.0 Speed device.

The highest level of performance
ASEDrive IIIe is designed for cutting edge computationally intensive security applications such as Digital Signature and PKI. ASEDrive IIIe can communicate with the smart card at up to 230Kbps and with personal computers at up to 12Mbps (USB 2.0 Full Speed). It also achieves higher performance by driving the smart card chip at up to four times the default frequency when supported by the card. This feature is significant for computationally intensive applications such as Digital Signature. The ASEDrive IIIe is designed based on Athena's extensive experience in manufacturing of smart card readers. Its fine tuned firmware and driver software ensure that it will provide the highest level of performance possible.

ASEDrive IIIe
PC/SC Smart Card Readers

	ASEDrive IIIe USB	ASEDrive IIIe Internal	ASEDrive IIIe Serial	ASEDrive IIIe Keyboard	ASEDrive IIIe Motorized
Host Interface	USB 2.0	USB 2.0	Serial	Serial	USB 2.0/Serial
Host Communication Speed	Full Speed	Full Speed			USB 12 Mbit/sec
	12 Mbit/sec	12 Mbit/sec	115,200 bps	115,200 bps	Serial 115,200 bps
Acceptor	Landing	Friction	Landing	Landing	Landing
Insert / remove cycles	200,000	100,000	200,000	200,000	500,000
Power Source	USB	USB	PS/2	PS/2	12VDC External
Card/Reader Communication	Up to 230 Kbps at 4, 8 and 16 MHz.				
Smart Card Support	ISO 7816 T=0, T=1,EMV,2/3 BUS I2C/Extended I2C Memory Cards.				
Card Operating Voltage	5V (ISO 7816 Class A), 3V (ISO7816 Class B).				
Card Operating Frequency	4, 8 & 16 MHz.				
Operating System Support	Windows 98, 98SE,ME,2000,XP,Server 2003, Linux, Mac OS X.				

Certification

Smart Card Reader Approvals	Microsoft WHQL, ME, 2000, 2003, XP, PC/SC Compliant, USB Logo, EMV Level 1.
Safety & Environmental Standards	FCC Class B, VCCI, CE.

The Making of a Leading Smart Card Reader

Flash Upgradeable Firmware

Landing Contacts
Minimum 200K cycles
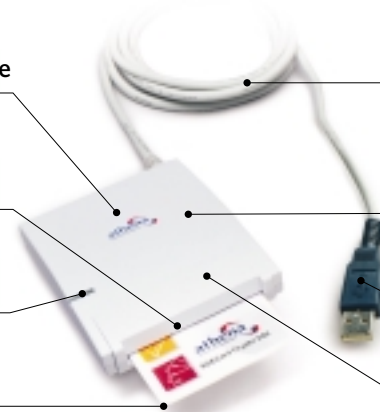
Perfect support for all
ISO 7816 smart cards

Card communication
speeds of up to 230 Kbps.

USB Logo

Special EEPROM area for
registering unique
protected information

USB 2.0
Full Speed (12Mbit/Sec)

Durable ABS enclosure
Manufactured In Japan

Designed for Microsoft® Windows®XP Windows®2000

CERTIFIED USB

athena Smartcard Solutions

www.athena-scs.com