

ASEDrive IIIe Biometric Technology

PC/SC Biometric Card Readers

ASEDrive IIIe Biometric Smart Card Readers are based on Athena's ASEDrive IIIe technology. The ASEDrive IIIe Biometric card readers incorporate advanced biometric fingerprint sensors providing high quality and high performance Biometric capabilities to support One to One or One to Many match verification. The ASEDrive IIIe Biometric readers are available with Touch area or Swipe sensors.

The ASEDrive IIIe Biometric readers offer outstanding performance and provide high compatibility level. ASEDrive IIIe Biometric readers are certified by both USB Implementers Forum, Microsoft WHQL and NIST. ASEDrive IIIe Biometric readers provide the quality and functionality professionals require and are ideal for consumer use and corporate and government smart card applications.

- Complying with all major standards including; PC/SC, ISO7816 (T=0, T=1),
- Compatible with EMV, JIS X6303/6304, PC/SC, PIV and memory cards.
- High speed communication through USB 2.0 (full speed).
- On-board flash memory for field upgrading.
- Ability to assign unique registration data to a single reader or batch using a special EEPROM area.
- Support of high card-reader communication speed.

Certified by USB Implementers Forum, Microsoft WHQL and NIST.

Supports all major PC operating systems Windows 8/8.1, 7, Vista, XP, 2003/2008/2008/2012 R2 Server.

High performance and low cost

ASEDrive IIIe Biometric devices are a high performance at acceptable cost Biometric Smart Card reader solution for contact only cards. Adopting state-of-the art technologies. ASEDrive IIIe Biometric devices provide the highest level of performance in a ergonomically designed package. ASEDrive IIIe Biometric fully complies with the PC/SC standard and can be seamlessly integrated within Windows environments.

Complies with all major standards and certifications

ASEDrive IIIe Biometric Smart Card Reader complies with all major international industry standards such as ISO7816, Microsoft PC/SC, EMV, JIS X6303/6304, FIPS201. The Readers are suitable for most smart card application. ASEDrive IIIe is certified as Designed for XP, Working with Vista logo and "Compatible with Windows 7" by Microsoft. Certified by USB Implementers Forum as a USB Full 2.0 Speed device.

ASEDrive IIIe appears on the FIPS201 APL.

The highest level of performance

ASEDrive IIIe Biometric is designed for computationally intensive security applications, such as Digital Signature and PKI. ASEDrive IIIe can communicate with the smart card at up to 323Kbps 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 a significant performance advantage for intensive applications, such as Digital Signature. The ASEDrive IIIe Biometric design is based on Athena's extensive experience in the manufacture of smart card readers. Its fine tuned firmware and driver software ensures that it will provide the highest level of performance possible.





	ASEDrive IIIe Combo Bio PIV & ASEDrive IIIe Combo Bio EIM Light	ASEDrive IIIe Secure Bio Reader	ASEDrive IIIe V2 BioTCS2/TCS4
Host interface	USB 2.0	USB 2.0	USB 2.0
Host communication speed	USB 12 Mbit/sec	USB 12 Mbit/sec	USB 12 Mbit/sec
Acceptor	Friction	Landing	Landing
Insert / remove cycles	100,000	200,000	200,000
Power Source	USB	USB	USB
Security Certification	FIPS 201/PIV, Cert# 514/517	-	-
Card/Reader communication	500 Kbps at 4 MHz	500 Kbps at 4 MHz	500 Kbps at 4 MHz
Biometric Sensor	DigitalPersona TCS1 TouchChip® sensor EIM or EIM Light with TCS1 or TCS2	DigitalPersona -TCET module EIM (Enhanced Image Mode)	DigitalPersona TCS2 TouchChip® sensor / DigitalPersona TCK4 Swiipe Sensor
Image Resolution	508 dpi		
Smart Card Support	ISO 7816 T=0, T=1,CAC, EMV		
Card Operating Voltage	5V, 3V & 1.8V (ISO 7816 Class A, B & C)		
Card Operating Frequency	Up to 16 MHz		
Operating System Support	Windows XP, Vista, 7, Server 2003/R2, Server 2008/R2 Support for both 32 bit and 64 bit systems		
Smart Card Reader Approvals	Microsoft WHQL, 2003/R2, 2008/R2, 2012/R2 XP, Vista, 7, 8/8.1, PC/SC Compliant, USB Logo.		
Safety & Environment Standards	FCC Class B, VCCI, CE., RoHS		
Device Configuration	CCID or ASE Mode		

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