

**ASEDrive Ille Combo Bio F2**  
**Integrated Fingerprint Sensor**  
**Smart Card Reader**  
**USB 2.0 Full Speed Interface**



**Highlights – Smart Card Reader**

- Contact smart card reader complying with all major international standards including, ISO7816 and EMV.
- Microsoft PC/SC certified.
- Supporting all CPU-based Smart Cards and memory cards.
- High-speed communication designed for Digital Signature and PKI systems.
- Upgradeable Flash Memory.

**Highlights – Biometric Sensor**

- Area Touch Sensor
- Precise BioMatch™Pro (requires license) and BioAPI support.
- CMOS active capacitive pixel-sensing

**Top performance Bio Smart Card Reader**

**ASEDrive Ille Combo Bio F2** is a member of Athena's new family of smart card readers. **ASEDrive Ille Combo Bio F2** supports all major international standards such as ISO7816 and EMV, as well as industry and de facto standards such as Microsoft's PC/SC. All ISO7816 compliant CPU-based smart cards, as well as major memory cards are supported.

**ASEDrive Ille Combo Bio F2** is one of the most cost effective Biometric smart card readers, while providing excellent performance, compatibility and upgradeability.

**Superior Smart Card Performance**

Modern applications for smart cards such as Digital Signature, Digital Certificate Verification and PKI require higher performance of the smart card readers. **ASEDrive Ille Combo Bio F2** was carefully designed to ensure higher communication speeds, in order to reduce the time needed for communication intensive operations. **ASEDrive Ille Combo Bio F2** also delivers higher clock frequency to smart cards. It reduces time for CPU intensive operation, such as cryptographic calculations. With these high performance features, **ASEDrive Ille Combo Bio F2** ensures the unparalleled throughput required in modern smart card applications.

## Reliability

The **ASEDrive IIIe Combo Bio F2** is designed with the most reliable contact smart card and biometric sensor technology to ensure long reader and card life.



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Host Interface	<ul style="list-style-type: none"> <li>• Full speed USB (12 Mbps)</li> </ul>
Smart Card Interface	<ul style="list-style-type: none"> <li>• T=0, T=1 protocol support</li> <li>• Flash Upgradeable</li> <li>• Communication speed up to 344Kbps</li> <li>• ISO 7816 Class A and AB</li> <li>•</li> </ul>
Smart Card Connector	<ul style="list-style-type: none"> <li>• 8 contacts - ISO location</li> <li>• Certified for 100,000 insertions</li> <li>• Friction contact</li> </ul>
Cable	1.8 m with USB type A
Biometric Sensor	<ul style="list-style-type: none"> <li>• UPEK – TouchChip™ TCS2</li> <li>• UPEK TCS1 (optional)</li> <li>• 208 x 288 pixels</li> <li>• 10.4 x 14.4 mm</li> </ul>
OS	<ul style="list-style-type: none"> <li>• Windows 2000, XP, Vista, 2003</li> </ul>
API	<ul style="list-style-type: none"> <li>• PC/SC</li> <li>• Precise BioMatch™ Pro (requires separate license)</li> </ul>
Approval	<ul style="list-style-type: none"> <li>• FCC Class B part 15, CE</li> <li>• Microsoft WHQL 2000, XP, Vista, 2003</li> </ul>

Specifications are subject to change without notice.

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