

SecuGen Hamster Pro Trio is suitable for any smart card application where multifactor authentication is needed for higher security without sacrificing convenience. The Trio features the industry's most accurate, rugged, and affordable USB fingerprint reader to give you what the SecuGen brand is known for, the highest quality in fingerprint biometrics.

Accurate Durable Maintenance-Free Cost-Effective

Features

- Accurate, patented optical USB fingerprint sensor with 500 DPI resolution
- Auto-On™ automatic finger detection and Smart Capture™ for quality scanning of dry, moist, aged, scarred, and difficult-to-scan fingers
- Fake Finger Rejection for enhanced security*
- Contact smart card reader
- Contactless smart card reader with built-in NFC antenna
- Convenient, ergonomic design
- Fingerprint sensor FBI Certified for FIPS 201 (PIV) and Mobile ID FAP 20



Benefits

- Improved security with convenience and reduced password reset requests because fingerprints act like digital passwords that cannot be lost, forgotten or stolen
- Improved accountability by allowing users to quickly and easily prove their identities with their fingerprints
- Reliable and consistent performance for an ever-increasing number of applications designed for mobile, desktop, network, enterprise, and Internet environments

The Highest Quality in Fingerprint Biometrics at Affordable Prices

Accurate

SecuGen sensors are very accurate thanks to an ultra-compact, patented optic design that produces high quality images for greater precision, less false rejections/false acceptances, and better overall performance compared to competing fingerprint sensors.

Durable

With a virtually indestructible sensor prism, the SecuGen sensor is extremely rugged. SecuGen sensors are designed to be strong for dependable and consistent scanning even outdoors and under harsh or high traffic environments.

Maintenance-free

Unlike semiconductor-based sensors and other optical sensors, SecuGen sensors are made with hardened glass that needs no coatings or special protection. SecuGen sensors resist scratches, ESD, corrosion, and other stresses and can be easily wiped clean without fear of damage.

Cost-effective

SecuGen designs, develops, and manufactures its own fingerprint sensors that are built to last and deliver solid performance for years, making SecuGen sensors the most cost effective choice.

Typical Applications

- Physical Access Control
- Personal Identity Verification (PIV)
- National ID Cards
- Any smart card / fingerprint application

Free SDKs

With a variety of free Software Development Kits to choose from, SecuGen readers are easy to integrate into almost any kind of application.

Request a free SDK at www.secugen.com today!

* Fake Finger Rejection currently supported on Windows only; support for Android and Linux coming soon.

Specifications

Product Name	Hamster Pro Trio
Model	XU20ASCL
Dimensions / Weight	80.0 x 100.0 x 45.5 mm / 186 g
Operating Temp / Humidity	0° ~ 55°C / 10 ~ 90%, non-condensing
USB Interface	2.0 Full-Speed, Hi-Speed (fingerprint)
Supply Voltage / Max Current	5 V DC (via USB) / 300 mA
Compliance	FCC, CE, KCC, RoHS, WHQL, PIV, FIPS 201
Warranty	One year limited
Supported OS	Windows 11 / 10 / 8.1 / 8 / 7, Server 2016 / 2012 / 2008 R2, Android 3.1+, Linux

Fingerprint Sensor	U20-A
Image Resolution / Size	500 DPI / 300 x 400 pixels
Platen Size / Sensing Area	18.2 mm x 23.1 mm / 15.2 mm x 20.3 mm
Image Gray Scale / Light Source	256 levels (8-bit) / LED
Smart Capture Speed	0.2 ~ 0.5 seconds
Features (when used with SecuGen Pro SDKs)	Auto-On, Smart Capture, 360 Degree Fingerprint Rotation
Biometric Standards/Specs	FIPS 201 (PIV-071006), INCITS 378, ISO/IEC 19794-2, 19794-4, FBI FAP 20, MINEX, WSQ

Contact Card Reader	Identiv CLOUD 2100R (uTrust 2700 R)
Standards	ISO/IEC 7816 ID-1, Class A/B/C support, EMV 2011 v4.3 Level 1
Protocol	T=0, T=1
Smart Card Interface	ID-1 8 pin sliding contact, Card Present switch, C4/C8 support
Data Transfer Rate	Up to 600 kbps (depends on card), TA1=97
Supported APIs	PC/SC, CT* M-Card* (*through wrapper on top of PC/SC)
Compliance / Certifications	EMV 2008 v4.2 Level 1, ISO/IEC 7816, USB 2.0, CCID, WHQL, FIPS 201, FCC Class B, CE, UL94, UL 60950, VCCI, ICES, ANZ, HBCI, GSA APL, RoHS2, REACH, WEEE

Contactless Card Reader	AB Circle CIM315F-01
Standards	ISO/IEC 18092, 15693, 14443 Type A & B
Protocol	T=CL (translated to T=1, PC/SC compliant)
Card Types	ISO/IEC 14443-4 Type A & B, ISO/IEC 15693-3 cards, MIFARE series, FeliCa, Calypso, NFC Forum Type Tags
Frequency / Reading Distance	13.56 MHz / Up to 50 mm
Data Transfer Rate	Up to 848 kbps
SAM Card Interface	ISO/IEC 7816, T=0, T=1 protocols
Supported API	PC/SC
Compliance / Certifications	ISO/IEC 14443, ISO/IEC 18092, ISO/IEC 15693, ISO/IEC 7816 (SAM slot), USB 2.0 Full Speed, CCID, WHQL



What's Inside a Hamster Pro?

At the heart of Hamster Pro Duo and Trio readers are SecuGen's flagship ultra-compact fingerprint sensors with advanced features including:

Auto-On™ automatically detects the presence of a finger when placed on the reader for quick and easy authentication

Smart Capture™ captures high quality fingerprints from dry, moist, aged, scarred and difficult-to-scan fingers for greater accuracy and reliability

High durability and ruggedness with proven resistance to electrostatic shock, impact, drops, scratches, extreme temperatures, humidity, and contaminants such as sweat, dirt, and oil

Patented optical technologies for clear, accurate imaging with high contrast, high signal-to-noise ratio and low distortion

Reliable performance even under challenging conditions and tough environments

Rejection of false fingerprints such as latent prints and 2-D images

Fingerprint data protection with templates that cannot be used to reconstruct fingerprint images

Greater sensor-to-sensor consistency for high accuracy when matching fingerprints enrolled with different fingerprint readers at different locations

SecuGen

Open the World with Your Fingertip!®

Founded in 1998, SecuGen is a leading provider of advanced optical fingerprint recognition technology for physical and information security. Our high quality biometric sensors have been used all around the world in diverse areas such as government, finance, health care, law enforcement, education, retail, manufacturing, and transportation.

www.secugen.com