Hamster[™] Pro Duo/CL



SecuGen Hamster Pro Duo/CL is suitable for any contactless smart card application where dual factor authentication is needed for higher security without sacrificing convenience. It 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.

Durable Accurate Maintenance-Free Cost-Effective

Features

- · Accurate, patent-pending optical USB fingerprint sensor with 500 DPI resolution
- CCID compliant smart card reader with built-in antenna for NFC tag access,
 USB firmware upgradability, and SAM (Secure Access Module) slot for
 high level of security in contactless applications
- Auto-On[™] automatic finger detection and Smart Capture[™] for quality scanning of dry, moist, aged, scarred, and difficult-to-scan fingers
- · Sleek, 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 that they are who they are with their fingerprints
- Reliable and consistent performance for an ever-increasing number of applications designed for desktop, mobile, network, enterprise and Internet environments
- · Backed by the industry's best quality guarantee with over a decade of field use and proven performance under extreme conditions

SecuGen Provides the Highest Quality in Fingerprint Biometrics at Affordable Prices

Durable

SecuGen fingerprint sensors are extremely rugged and feature a virtually indestructible sensor prism. From the sensor surface to the internal lens and electronic components, SecuGen sensors are designed to be strong and dependable to deliver consistent performance in indoor, outdoor and other harsh environments.

Accurate

SecuGen sensors are very accurate thanks to an ultracompact, patent-pending optic design that produces high quality images that result in greater precision, less false rejection and acceptance, and better overall performance.

Maintenance-free

Unlike semiconductor-based sensors and other optical sensors in the market, SecuGen sensors are made with a hardened glass that needs no coatings but resists scratches, ESD, corrosion and other stresses. The optic parts are tightly assembled so that if the sensors are ever dropped, there is no need for recalibration.

Cost-effective

SecuGen designs, develops and manufactures its own fingerprint sensors that are built to last. SecuGen guarantees the best product quality in the industry, which translates into savings by eliminating costly replacements and losses from system downtime.

Typical Applications

Physical Access Control
Personal Identity Verification
National ID Programs
Any dual factor NFC / fingerprint biometric
application

Free SDKs

With a variety of SecuGen SDKs to choose from, SecuGen readers are easy to integrate into almost any kind of application.

Request free SDKs or search for compatible software at www.secugen.com.

Product Name

Model Number

General

Dimensions (W x L x H)
Weight
Operating Temperature
Operating Humidity
Interface
Supply Voltage
Current Consumption (max)
Supported Operating Systems

Compliance Warranty

Fingerprint Sensor

Optic Module
Image Resolution / Size
Platen Size
Effective Sensing Area
Image Grayscale
Light Source / Typical Lifetime
Fingerprint Capture Speed
Supported Biometric Standards

Card Reader

Model / Type Operating Distance Operating Frequency Supported Smart Card Interface

Supported APIs
Built-in Peripherals

Compliance

Hamster Pro Duo/CL

77.5 x 160.0 x 37.7 mm

One year limited

XU20CL

250 g
0° ~ 50°C
10 ~ 90%
USB 1.1 Full-Speed, USB 2.0 Hi-Speed
5 V DC (via USB)
450 mA
Windows 8.1, 8, 7, Server 2012, Server 2008 R2,
Server 2003, Linux, Android 3.1 and above
FCC, CE, RoHS

SecuGen U20 fingerprint feader
500 DPI / 300 x 400 pixels
18.2 mm x 22.9 mm
15.24 mm x 20.32 mm
256 levels (8-bit)
LED / 60,000 hours
0.2 ~ 0.5 sec with Smart Capture
FIPS 201 (HSPD-12), FBI PIV-071006 & Mobile
ID FAP 20, INCITS 378, BioAPI, ISO/IEC 19794-2,
ISO/IEC 19794-4

ACR1251U1-A1 / contactless smart card reader Up to 50 mm (depending on tag type) 13.56 MHz ISO14443 Type A & B, Mifare, FeliCa, 4 types of NFC (ISO/IEC18092) tags PC/SC, CT-API (through wrapper on top of PC/SC) User-controllable bi-color LED and buzzer, ISO 7816 compliant SAM slot ISO 18092, ISO 14443, ISO 7816, PC/SC, CCID, LASCOM, EN60950/IEC60950, VCCI, MIC, KC



What's Inside a Hamster Pro?

At the heart of Hamster Pro readers are SecuGen's ultracompact, next-generation fingerprint sensors with advanced features including:

- Auto-On[™] that automatically detects the presence of a finger when placed on the reader for quick and easy authentication ¹
- Smart Capture™ that captures high quality fingerprints from dry, moist, aged, scarred and difficultto-scan fingers for greater accuracy and reliability ¹
- High durability and ruggedness with proven resistance to electrostatic shock, impact, drops, scratches, extreme temperatures, humidity, and contaminants such as sweat, dirt, and oil
- Patent-pending optical technologies for clear, accurate imaging with high contrast, high signal-tonoise ratio, and low distortion
- Reliable performance even under challenging conditions and tough environments
- Fingerprint data protection with templates that cannot be used to reconstruct fingerprint images²
- Greater sensor-to-sensor consistency for high accuracy when matching fingerprints enrolled with different fingerprint readers at different locations
- Ease of integration into many types of applications using a wide offering of free Software Developer Kits
- Multi-Device Connectivity™ that allows multiple fingerprint readers to be connected to one computer at the same time ²
- Device Recognition™ that identifies and recognizes different fingerprint readers²
- 1 Auto-On and Smart Capture are built into the sensor but need to be enabled by the software application that calls for a fingerprint scan.
- 2 Feature dependent upon software application used



SecuGen Corporation www.secugen.com

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