Worry-less payments with biometric smartness
Go ahead and trust the world. Our proven biometric technology brings a whole new level of security to your payment cards. Now you can go ahead and travel the world without worries and suspicion. No more skimming, no more forgetting which card has which pin, no more choosing “safe” but boring restaurants and no more uncertain payments. We bring worryless payments to a world where everyone can be trusted.

Every day we buy things, small things, big things, dear things. We do it in the grocery store, the café on the corner, our favorite restaurant or in that small market on the other side of the world. Today there are lots of ways to make a payment. Some give you a better sense of security than others. Our proven biometric technology adds a new level of security and convenience to your credit and debit cards. As the ways of paying are increasing, getting faster, more convenient and more common, we are making them safer. Much safer.

IT’S SMARTER, IT’S SAFER, IT’S A WORLD WHERE YOU ARE THE KEY TO WORRY-LESS PAYMENTS
YOU ARE THE KEY
Our biometric solution is adding even more convenience to the already smart and easy to use Smart Card. Now you don’t have to remember all the pins to your cards or use your pin code in public. All you need to do is to put your finger on the sensor to let it know it is you.

IN CONVENIENCE WE TRUST
For years we have been told to cover the digits when we push our pin codes in ATM’s and other point of purchases where you use your credit or debit card. As you protect your code you send distrust to the person behind you suspecting them for registering your pin. With our biometric technology you get both convenience and trust.

NEW LEVEL OF SECURITY
The Smart Card has been around for a while and we have been working hard to make our biometric solution thin enough to be a part of the Smart Cards. The hard work has paid off and we can now deliver a thin and powerful mass-market solution to the credit and debit cards. A solution where no secret ever leaves the card, ensuring the integrity and privacy needs of the users is met.

TAP SAFER
Contactless payment is a new way of paying. It was supposed to be faster - letting you make quick payments without pins and without even putting the card in the machine. The security in these payments came in the form of an upper limit and you could only use contactless payments for small purchases. By adding biometric technology to these cards we add the security to lift the purchase limit.

FEATURES

ENROLL YOURSELF BY A QUICK TOUCH
With only a few and quick touches you are enrolled and can start using the fingerprint sensor to unlock and verify yourself.

ONE TOUCH AND YOU’RE ON
With virtually no power consumption this feature can be at your service all the time letting you activate your card with one touch.

YOUR TOUCH FROM ANY ANGLE
Allows the sensor to read and match your fingerprint from any angle with outstanding accuracy, precision and performance.

EVOLVING ALONG WITH YOU
With every touch, our self-learning algorithm keeps learning more about you. Adapting to your changing finger conditions, e.g. cuts and seasonal changes.

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FINGERPRINTS™ BIOMETRIC SMART CARD SOLUTIONS

GENERAL DESCRIPTION
The smart card product solution includes fingerprint sensor hardware, algorithms and software optimized for integration into smart cards. Compact size and ultra-low power consumption makes it optimal to use in contactless or contact based applications. The proven fingerprint recognition algorithm, together with the ultra-thin touch fingerprint sensors FPC1300-series performs fast fingerprint matching with highest security level and optimal user convenience. A range of demonstration and development kits together with tools and smart packaging ensures a smooth development all the way, from early prototyping into mass market production.

SYSTEM
- FPC1320 and FPC1321 fingerprint sensors. FPC1320 is used for initial evaluation whereas FPC1321, has a smaller footprint and lower current consumption during image capture.
- Ultra thin design optimized for smart card integration
- ISO compliance on card level
- Compact and easy to integrate
- Flat top surface, attractive appearance
- Superior 3D image quality with 508 dpi and 256 true grayscale values in every pixel
- Robust protective coating capable of more than 10 million finger placements
- Full ESD protection more than ±15kV
- Ultra-low power consumption ideal for contactless use
- Fast power up to do image capture < 1 ms
- 1.8/3.3 Volt operation
- High speed SPI interface

SOFTWARE
- Designed for systems that have limited current and processing power
- Easy-to-integrate API interface
- Proven robust biometric performance
- One software interface for all supported micro-processor configurations
- Support for match on Secure Element and/or MCU
- Enrollment and verify function
- Fast verification time <1 sec
- Template manager
- Updates every quarter

PACKAGING
- Solderable LGA
- T-shape™ module

For more information please visit fingerprints.com