



TouchChip[®] TCET Module

APPLICATIONS

ID Verification for:

- Civil ID/Voting/Entitlement Services
- Physical Access
- Finance, Healthcare and Point of Sale
- Mobile ID Terminals

SILICON FINGERPRINT MODULE

The TouchChip[®] TCET module is compact, cost effective and easy to integrate. The on-board processor is used for capture and match, delivering fast and accurate results. It can store up to approximately 100 user templates and supports USB, SPI or UART interfaces. Power consumption is less than 100mA during capture and match.

For easy integration, the TCET module is fully assembled and tested—just connect and interface with simple commands. The Enhanced Image Mode (EIM) optimizes image quality over a broad range of skin types and capture conditions. The TCET module eliminates latent images during capture and offers ingress protection from dust and moisture

penetration to IP65*. The module supports WSQ and JPEG2000 compression with the appropriate Software Development Kit.

HID Global offers two TouchChip TCET module options:

- TCETC1 (uses the TCS1CT sensor to provide FIPS 201 certification)
- TCETD1 (uses the TCS1ST for enhanced durability)

The TouchChip TCET module includes broad software support from leading algorithm providers, ISV's and system integrators. Whether you are an OEM or system integrator, HID's biometric identity verification solutions provide a natural extension to your applications.

* Requires customer to add external gasket.

FEATURES

- FIPS 201 PIV certified
- SteelCoat
- Low power consumption
- Compact size
- High durability silicon surface
- IP65-rated top surface sealed against dust and liquid*
- High quality fingerprint image
- OS: Windows[®] 7, 8 and 10, Win CE, Linux[®], Android and embedded systems (with and without OS)

SPECIFICATIONS

Product Name	TouchChip[®] TCET Module
Part Number	TCS1 FIPS 201 3.3v USB/SPI/UART Silver Bezel - TCETC1FF022 TCS1 FIPS 201 5v USB only Silver Bezel - TCETC1FG022 TCS1 SteelCoat 3.3v USB/SPI/UART Silver Bezel - TCETD1FF022 TCS1 SteelCoat 5v USB only Silver Bezel - TCETD1FG022 TCS1 FIPS 201 3.3v USB/SPI/UART Black Bezel - TCETC1PF022 TCS1 FIPS 201 5v USB only Black Bezel - TCETC1PG022
Interface	<ul style="list-style-type: none"> • 12-pin flex: USB, SPI, UART @ 3.3v • 5-soldier pads for USB only @ 5v
Power (typical)	<ul style="list-style-type: none"> • 3.0v to 3.6v • 100mA (capture, match) • Standby (USB): 1350 uA • Standby (UART/SPI): 1150 uA
Fingerprint Image	<ul style="list-style-type: none"> • 12.8 x 18.0 mm (256 x 360 pixels) • 508 dpi, 8-bit grayscale
Sensor Coating	<ul style="list-style-type: none"> • FIPS 201 (gold coating) • SteelCoat (black coating)
Package Size	23 mm x 35 mm x 4.1 mm
ESD	IEC 61000 - 4.2 level 4, +/- 15KV air, +/- 8KV contact
Ingress Protection	IP65 (water/dust protection)*
ENVIRONMENTAL	
Operating temperature	-30 to +70 C
Storage temperature	-30 to +125 C
Humidity	5% - 93% non-condensing

Data subject to change without notice.

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