



The TouchChip TCS2 fingerprint sensor offers a medium size capture area for a silicon fingerprint sensor, ensuring reliable biometric performance at a cost effective price. Combining the TCS2 with the Enhanced Image Mode (EIM) technology delivers the same image quality as the FIPS-201 certified TCS1 sensor. When the SteelCoat protective technology is added, the TCS2 delivers excellent biometric performance while providing additional protection for the sensor.

The TouchChip TCS2 sensor provides excellent fingerprint images across a wide range of users, making it a reliable solution for many identity verification applications. It is designed into many logical and physical access control products where the convenience of "touch" and budget are important.

Advantages

- Active capacitance technology delivers excellent image quality and ability to acquire.
- Enhanced Image Mode (EIM) optimizes image quality over broad range of skin types and capture conditions, plus eliminates latent images during capture.
- TouchChip SteelCoat coating (black) improves ruggedness.

Features

- Most widely deployed silicon touch sensor technology.
- Same image quality as larger TCS1 sensor that is FIPS-201 certified.
- Ideal for more cost sensitive touch applications.
- Small size & low power.

Specifications

MEDIUM CAPTURE AREA	Durability
• 10.4 x 14.4 mm imaging array size	• +/- 15 KV ESD (IEC 61000-4-2 level 4)
	• 2M fingerprint placements (gold)
	• 4M fingerprint placements (black)
HIGH RESOLUTION	ENVIRONMENT
• 508 DPI meets FBI iAFIS requirement	• -30 to +85C operating
• 8-bit per pixel grayscale	• -40 to +85 storage
• Up to 12 frames per second capture rate	• RoHS compliant
INTERFACE	
• 8-bit RAM interface	
• 20-pin 0.5mm pitch flat flex cable connector	
LOW POWER	
• 20mA during capture (typical)	
• 4.4v to 5.5v (standard image mode, no bezel)	
• 4.5v to 4.6v (FIPS-201 & EIM mode w/ bezel)	

DigitalPersona, Inc.

720 Bay Road, Redwood City, CA 94063 USA

Tel: +1 650.474.4000 • Fax: +1 650.298.8313 • E-Mail: info@digitalpersona.com