

Qcom Chip-on-Flex (COF) Fingerprint Sensor

LiveFlex™ Swipe Sensor- Fingerprint Imaging on Flexible Tape

General Description

It is a durable Dual-Line-Imager (DLI) fingerprint sensor with a small exposed form factor. The product consists of custom silicon chip bonded to a Kapton® plastics flex circuit, known as Chip-On-Flex (COF). The sensor captures the unique features of a 3-D Fingerprint image using a patented technique to detect and measure the ridges and valleys of a live finger. The product, when used in conjunction with the Validity Software Development Kit, uses a licensed and protected Image Reconstruction Algorithm. It is USB 2.0 full speed capable and represents one of the most durable high performance fingerprint sensor devices on the market today. An on-board SPI controller can be connected to an optional flash memory to provide secure local template storage.

Feature and Specification Overview

Form Factor	Durable Kapton® Chip-on-Flex (COF)
Interface	USB 2.0 Full Speed Interface SPI Master for local template storage in Flash
Die Size	21 mm ²
Image Capture Size	200 pixel wide fingerprint image (10mm) at 508 DPI
Recommended Exposed Plastic Opening	12mm x 3mm
Height	Ultra Flexible Z-Height
Imaging	- 508 DPI @ 8-bit grayscale - 10-bit A to D for greater dynamic range - Bidirectional swiping supported
Standby Current	3uA (typical)
Imaging Current	67mA (typical)
Operating Temperature	0-70°C
Storage Temperature	-20 to +85°C
Customization Options	Colorized surface options available
Finger Detect Mechanism	On-chip finger detect