

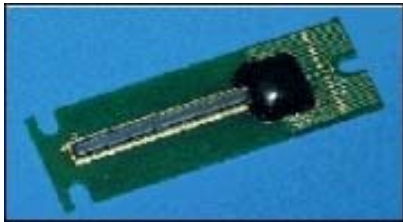


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FingerChip®

Thermal Line Sensor

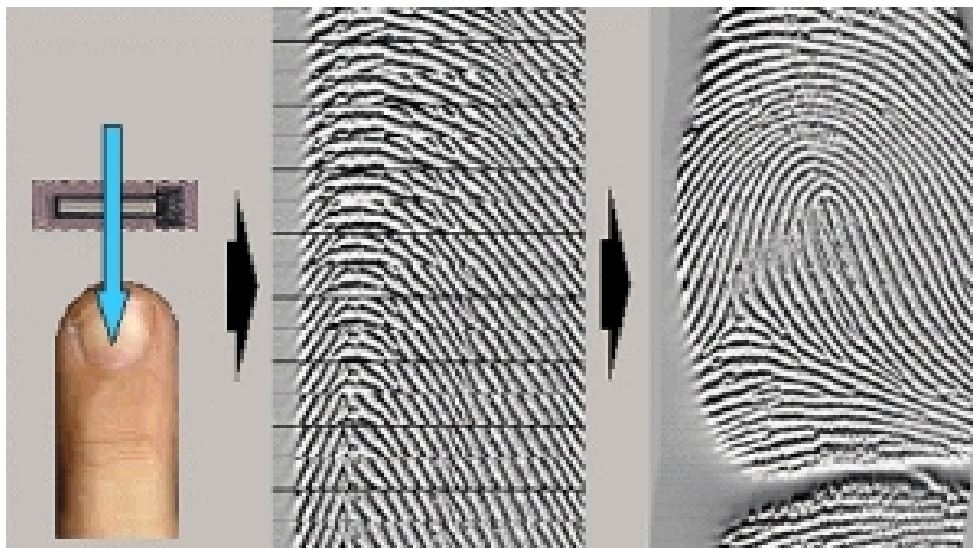


FingerChip thermal line sensor

FingerChip is physically made of a silicon die covered by a pyro-electric material, which is sensitive to temperature differences. The die itself is made of a matrix of adjacent pixels.

The sensor is small: the size of line sensor itself is only 0,4 mm x 14 mm.

FingerChip delivers images slices as you swipe your finger on the sensor, detecting the temperature difference according to whether the finger skin touches the sensing area (for a ridge) or not (for a valley) . The slice images are then combined to reconstruct a two-dimensional fingerprint images. Since the sensor is a swipe type, it is a self-cleaning sensor, and also provides a solution to the issue on liveness.



Swiping a finger to capture images slices to reconstruct a complete fingerprint image

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