

MBF200 Solid-State Fingerprint Sensor



Features

- Rugged, super thin (.14cm) design
- Ultra hard protective coating
- Low Power Operation:
 - 35 miliAmps in Operating Mode
 - 20 microAmps in Standby Mode
- 256 x 300 pixel sensor array producing clear 500 dots-per-inch (DPI) resolution images
- 1.28cm x 1.5cm sensor area
- Standard CMOS technology
- Three bus interfaces:
 - Universal Serial Bus (USB) V1-1
 - Enhanced 8-bit microprocessor bus interface
 - Serial Peripheral Interface (SPI)
- Integrated 8-bit analog to digital converter
- 80-pin surface mount package
- Accurate and rapid fingerprint image capture
- Ease of integration
- Automatic finger detection
- Programmable gain control

Description

The Fujitsu MBF200 solid-state Fingerprint Sensor (see diagram on following page) is a rugged, super thin, silicon-based, direct contact, fingerprint acquisition device.

Fingerprint authentication provides a reliable, quick, and user-friendly alternative to password inefficiency which requires the user to recall and enter cumbersome and often numerous code combinations. One advantage of the MBF200 fingerprint sensor is its ease of integration into portable electronic systems such as laptops, personal digital assistants,

(PDAs), and cellular phones. Other advantages include: durable construction, high performance, exceptional image clarity, small size, low power consumption, and lower unit cost than optical scanners.

The MBF200 sensor consists of a 256 x 300 column and row configuration of tiny metal electrodes. Every column is linked to a pair of sample-and-hold circuits. The fingerprint image is recorded in sequence row by row. Each metal electrode acts as one capacitor plate and the contacting

