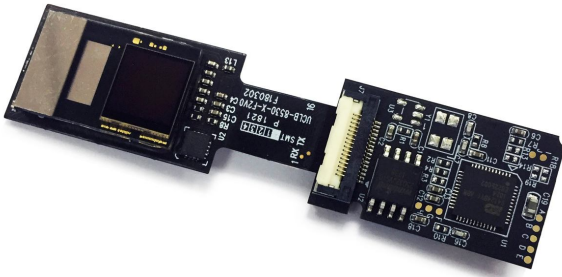


FPM-8530G3

Hybrid Fingerprint Recognition Embedded Module



The Digimore FPM-8530G3 is one chip fingerprint reader designed for integration into products with USB 2.0 full speed interface. It configures as USB mass storage device so it no need additional effort to handle driver.

The reader within the ST STM32F446 device is high performance, low power consumption 32-bit microcontroller based around an ARM[®] Cortex™-M4 processor core and the fingerprint algorithm is processed on it.

SPECIFICATION	
CPU	ARM Cortex M4 Core (ST STM32F446)
Sensor	Ultra-thin hybrid sensor
Effective Area of the Sensor	6 x 6 (mm)
Resolution/ Image Size	508 dpi; 120 x 120 pixels
Number of fingerprints	Support up to 100 fingerprints
Algorithm Matching Mode	1 : 1, 1 : N
Size of Template	32kb
Communication Interface	USB 2.0, UART default baud rate=115200bps after power on
FAR/ FRR	False Acceptance Rate (FAR) 1/100K; False Rejection Rate (FRR) < 5%
Enrollment Time/	<8 sec. (8 fingerprints)
Identification Time	<0.8 sec (30 fingerprints); <1.2 sec (50 fingerprints); <2 sec (100 fingerprints)
Operating Voltage/ Current	3.3V + 5% ; Typical 130mA
Operating Temperature	-20 to 60 degrees Celsius (20% to 80% RH, 25 degree Celsius)
Storage Temperature	-20 to 80 degrees Celsius (10% to 80% RH, 25 degree Celsius)
SDK Demo Support	Logical design also available upon requested

DIMENSION



The Fingerprint sensor module can be used under 2.0mm cover glass. The fingerprint sensor uses unique patented technology. In the 2.0mm cover glass, it has a good image quality. The sensor interface is SPI and internal touch function to wake up the host.

Furthermore, the high quality hybrid sensor has sufficient effective area. The active area allows stable imaging and ability to cope with mass market applications in need of both security and convenience.

* Features and specification are subject to change without notice.