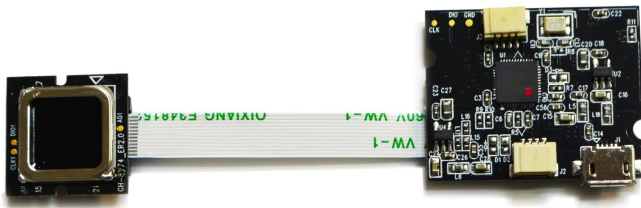


FPM-8111

Hybrid Capacity/ Optical FingerPrint Recognition Module

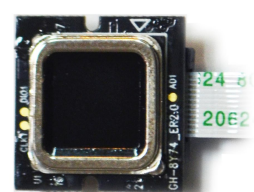


The Digimore **FPM-8111** is one chip fingerprint reader designed for integration into products with USB 2.0 full speed interface. It also configure as USB mass storage device so it no need driver. **The** module built in high quality hybrid (capacity/ optical) sensor with sufficient effective area.

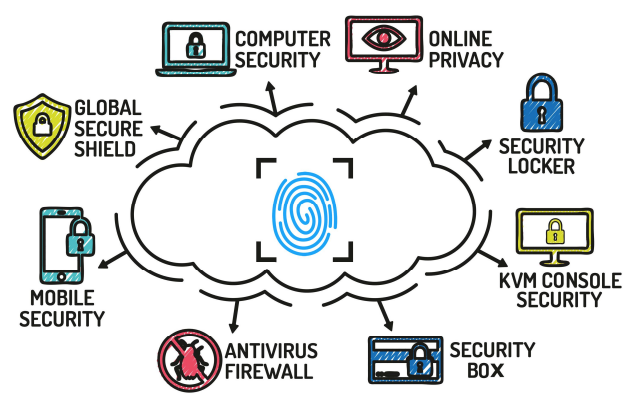
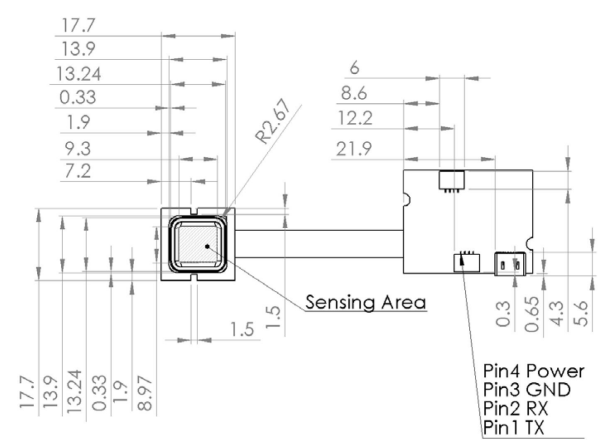


The reader within the Holtek HT32F2755 device is high performance, low power consumption 32-bit microcontrollers based around an ARM® Cortex™-M3 processor core and the fingerprint algorithm is processed on it. The self-developed algorithm is able to provide a variety of total solutions for embedded and PC applications. It also provides Windows and Android SDK for customer easy to develop their applications.

SPECIFICATION	
CPU	ARM Cortex M3 Core (Holtek HT32F2755)
Sensor	Ultra-thin hybrid sensor (capacity/ optical) ; SPI sensor image output; works well with dry, moist or rough fingerprints
Effective Area of the Sensor	8 x 8 (mm)
Resolution/ Image Size	1000/ 508 dpi; 320 x 320/160 x 160 pixels
Number of fingerprints	Support up to 20 fingerprints
Algorithm Matching Mode	1 : 1, 1 : N
Size of Template	496 bytes (template) + 2 bytes (checksum)
Interface	USB 2.0, UART, SPI, easy to develop
FAR/ FRR	False Acceptance Rate (FAR) < 0.01%; False Rejection Rate (FRR) < 0.1%
Enrollment Time/ Identification Time	<10 sec. (10 fingerprints); <1.0 sec. (20 fingerprints)
Operating Voltage/ Current	USB 5V; < 130mA
Operating Temperature	-20 to 60 degrees Celsius (20% to 80% RH, 25 degree Celsius)
Storage Temperature	-20 to 70 degrees Celsius (10% to 80% RH, 25 degree Celsius)
SDK Demo Support	Yes, Logical design also available upon requested
System Compatibility	Support embedded development, Linux, Android and Windows.



DIMENSION



* Features and specification are subject to change without notice.



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