EMBEDDED FINGERPRINT MODULE / GTM-5110C SERIES

TrueSecure™ 3D

Fingerprint recognition technology provides a secure and accurate means of biometric identification. This range of device from offers users a quick and easy implementation method for biometric fingerprint recognition. The integration of an optical fingerprint sensor, Holtek 32-bit ARM core microcontroller and fully programmed algorithm into a single module together combine to form complete fingerprint recognition module. A number of fingerprint images or templates are stored within the devices internal Flash Memory and therefore retain storage when power is removed. The storage capacity varies according to the module type selected. With easy commands such as learn, login and erase, this range of device offer a convenient and easy to use solution for users wishing to implement fingerprint biometric security into their products.
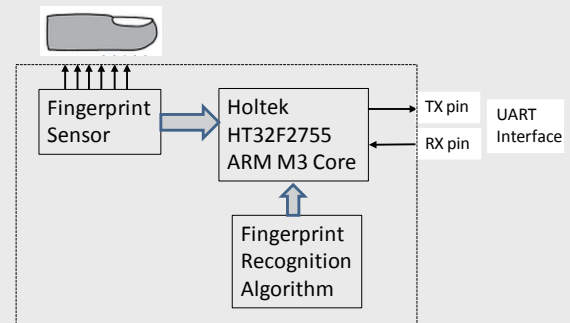
FEATURES

» Single chip fingerprint recognition module
» Complete integrated algorithms for learn, login and erase functions
» Advanced optical technology
» High accuracy and high recognition speed
» Ultra-thin optical sensor
» 1:1 verification and 1:N identification
» Downloadable sensor fingerprint image
» Fingerprint templates can be read/written to module
» UART communication protocol for interfacing to external master MCU
» Easy fingerprint recognition product integration

APPLICATIONS

» Notebook computer login
» Household security products
» Vehicle entry systems
» Biometric identification products

BLOCKSCHALTBILD

Vereinfachte Darstellung des Funktionsprinzips

SELECTION TABLE

PART NO.	EFFECTIVE AREA [mm²]	RESOLUTION [dpi]	IMAGE PIXELS	NO. OF FINGERPRINTS	ROTATION [deg.]	TEMPLATE BYTE SIZE	COMPARE TIME [s]	DIMENSION W×D×H [mm³]
GTM-5110C2	14×12.5	450	240×216	20	360	506	1.5	17×37.0×7.74
GTM-5110C21	14×12.5	450	240×216	20	360	506	1.5	21×36.1×7.74
GTM-5110C3	14×12.5	450	258×202	200	360	498	1.0	17×37.0×7.74
GTM-5110C31	14×12.5	450	258×202	200	360	498	1.0	21×36.1×7.74
GTM-5110C5	14×12.5	450	258×202	2000	360	498	1.5	17×37.0×7.74
GTM-5110C51	14×12.5	450	258×202	2000	360	498	1.5	21×36.1×7.74

The range of devices shown in the selection table are similar in function, but differ mainly in their fingerprint storage capacity, mechanical construction, pixel count, rotation range etc.

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