

GI Fingerprint OEM optical sensor - GSO110

**Able to set for sleep / auto-on and low energy usage
 No special treatments or maintenance required**



The GSO110 is a prism-based optical sensor. Compared to the semiconductor-based sensors, the GSO110 is very much stronger and has a high quality fingerprint image resolution of 500dpi. Even the surfaces of these sensors are contamination and shock resistant are able to recognize/capture dry and wet fingerprints. GSO110 can be used for access control by merging it with a fingerprint module and producing a small sized embedded form that will be readily applicable.

Overall Durability

Scratch-proof, unbreakable glass platen made of material as hard as quartz
 Resistant to shock, ESD, and extreme weather
 Performs well in high traffic, outdoor or rough environments

High performance and cost effectiveness

High resolution (500 dpi)
 Low manufacturing cost, long life, no maintenance required

Features

Optical Sensor
 Able to set for sleep / auto-on
 Able to set for low energy usage
 VGA standard CIS adopted

GSO110 - Specification

| | | |
|---------------------|---------------------|--------------------------------|
| Size | | 21mm x21.3mm |
| Sensor module | Product | 21.1mm x 51.7mm x 23.5mm |
| | Type | Optical sensor |
| DC characteristics | Fingerprint area | 16.2 mm (W) x 18.6 mm(H) |
| | Resolution | 500dpi |
| | Image size | Max 640 x 480 |
| | Power | 3.3 v |
| | Consumption power | Max 30mA , Min 60uA (Vin 3.3V) |
| | Working temperature | -20°C ~ 70°C |
| Storage temperature | -40°C ~ 125°C | |

GI Fingerprint OEM USB scanner - GUB110

**Experience the ultimate in convenience.
 Eliminate the need for PIN to gain access
 to secure logical areas.**



Provides security to PC and network based products and solutions by using fingerprint confirmation. It supports USB forms and various OS, making it suitable for PC based security solutions. GI provides different grades of SDK: basic, advanced, professional. Solutions can be developed, such as log-in PC interfaced with AD (active directory), encryption/decryption of files and folders, etc. utilizing GI SDK.

GUB110 - Specification

| | |
|---------------|--|
| Interface | USB |
| USB interface | USB 1.1 / 2.0 |
| Sensor | Optical (GSO110) |
| Resolution | 500dpi |
| Size | 40mm (W) x 70mm(D) x 70 (H) mm |
| O/S | Windows (2000 / 2003/ XP / Vista / window 7) Linux, NetBSD |
| Temperature | 0 ~ 40°C |
| Certificate | KCC, CE, FCC, RoHS |

Easy installation and use

Plug & play installation, USB interface provided
 Small and ergonomically designed for a more convenient use
 Strongly built for durable use
 LED status indicates success or failure.

Accuracy

Excellent algorithm allows accurate user confirmation and fast authentication

GI SDK detail

To simplify your integration of the USB scanner, we offer the GI SDK includes support for interfacing with all our fingerprint OEM products making integration simple, quick, and efficient. GI SDK includes:

- Support both low-level embedded applications, as well as high-level Windows-based applications (Support C / Java / Delphi / Visual basic)
- Simple to use serial communication commands
- Sample code with demo application