UniFinger SFU300

Datasheet

Ver. 1.1.1

Revision History

Rev No.	Issued date	Description
1.0	Feb 5, 2005	Initial Release
1.1	Nov. 15,2005	H/W, F/W revision
1.1.1	Nov. 25,2005	Fix typos

Contents

1.   Overview

UniFinger SFU300 is an OEM fingerprint scanner suitable for integration into fingerprint authentication devices or systems.

It includes a reliable optical fingerprint sensor enabling robust and acurate acqusition of fingerprint image. Also, it supports standard USB interface used for efficient transfer of captured fingerprint image data to host system. Since it is provided as OEM module, it can be easily and cost-effectively used as a part of various application devices and authentication systems.

SFU300 is supported by UniFinger Engine SDK containing world's leading fingerprint authentication algorithm(ranked No. 1 in FVC2004). Owing to excellent performance of the algorithm and reliable fingerprint imaging, it provides outstanding authentication results when used together with the UniFinger Engine SDK.

2.   Features

- ‧   Reliable image quality
- ‧   Cost effective OEM module
- ‧   Standard USB interface support
- ‧   Supported by UniFinger Engine SDK (world's leading fingerprint authentication algorithm)
- ‧   Windows 98 SE, Me, 2000, XP support

3.   Applications

- ‧   PC Peripherals(fingerprint reader, mouse)
- ‧   Keyboards
- ‧   Kiosks, POS terminals
- ‧   Time and attendance systems
- ‧   Government and law enforcement applications

4.   System Specifications

Sensor technology	Optical
Sensing area	16mm x 18mm
Image size(pixels)	280 x 320
Image resolution	500 dpi, 8 bit gray scale
Interface	USB 1.1 Full Speed
Operating temperature	0 °C ~ 40 °C
Supported OS	MS Windows 98SE/ME/2000/XP

5.   Hardware Specifications
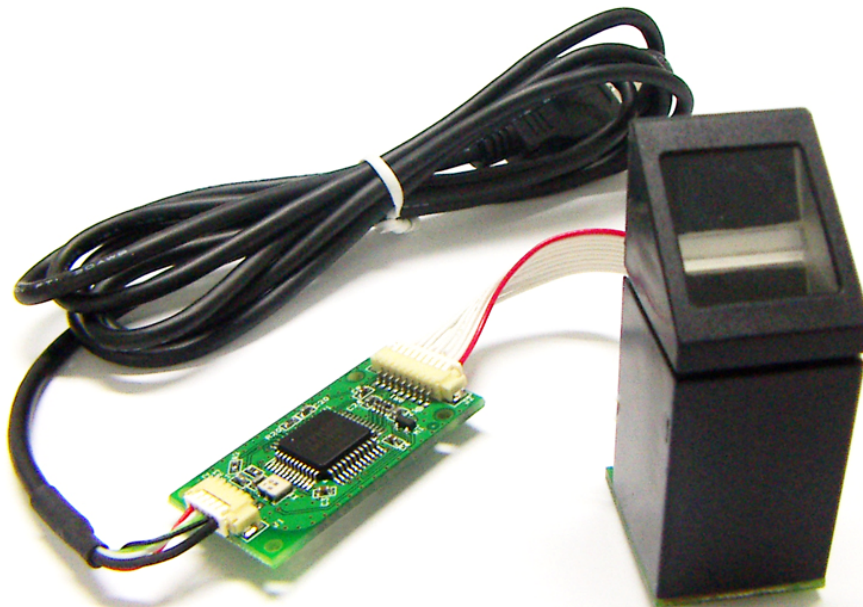
5.1.   Components

Component	Description
Main board	Main board controlling fingerprint sensor and interfacing with USB host
Fingerprint Sensor	Optical Fingerprint sensor
Sensor interface cable	9 pin wired cable connecting sensor and main board
USB interface cable	Standard USB cable connecting main board and host USB port

5.2.   Physical Dimensions

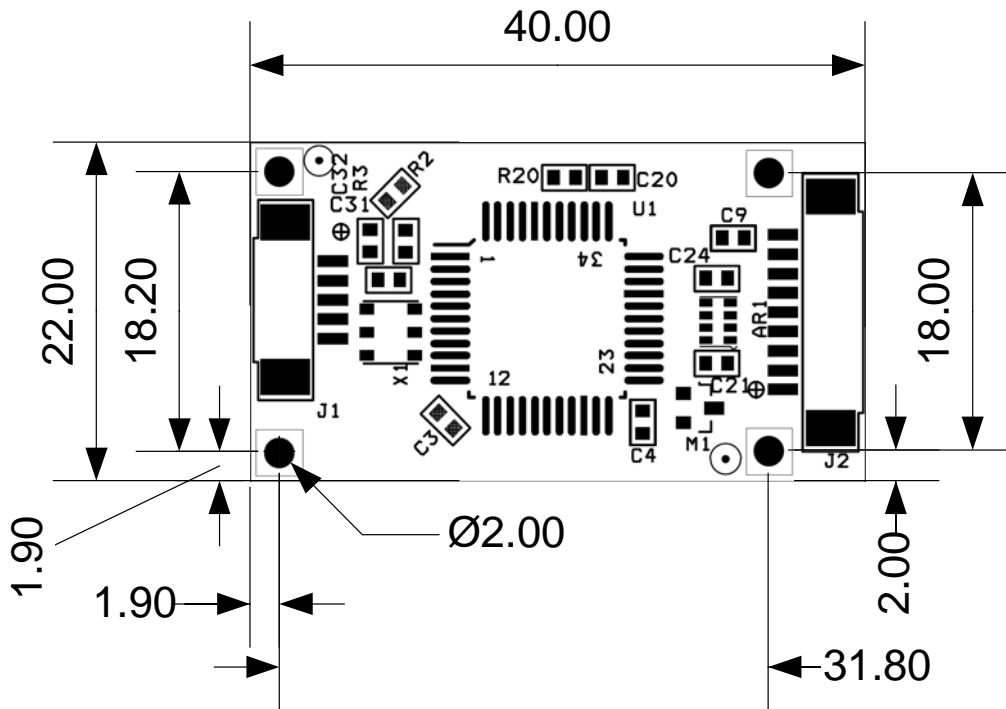| Parameter	Values
Main Board	40mm x 22mm x 1.6mm (WxLxH)
Fingerprint sensor	21mm x 23mm x 52mm (WxLxH)
Sensor interface cable	80 $\pm$ 5 mm
USB interface cable	1600 $\pm$ 50 mm

Figure 1   Main Board dimensions

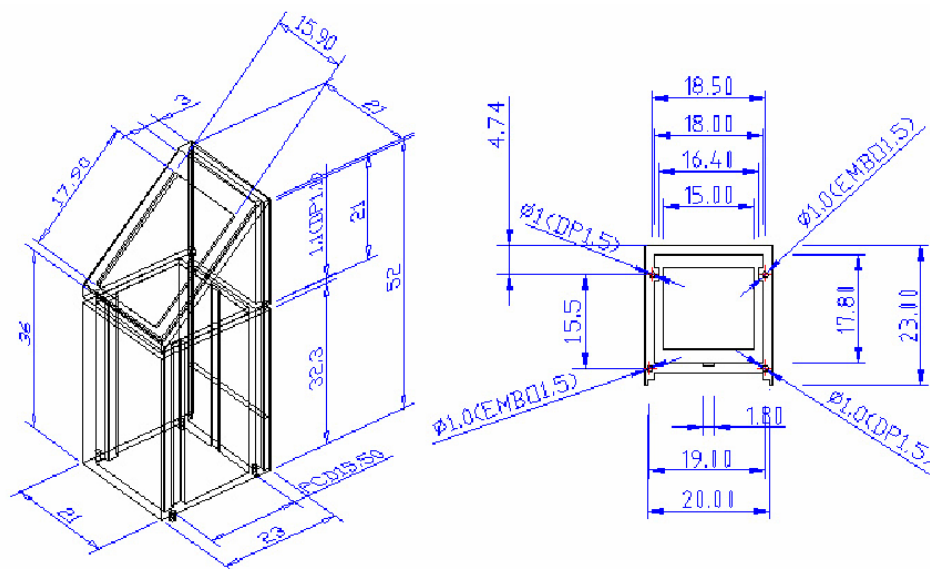**Figure 2   Sensor dimensions**

5.3. Connector Specifications

Connector	Usage
J1	Connector for USB interface on main board
J2	Connector for sensor interface on main board

- **J1 pin assignment**

Name	Pin number	Functions
VCC	1	Power pin. 5Vdc
USB D-	2	USB Data -
USB D+	3	USB Data +
GND	4	Power Ground
FGND	5	Frame Ground

Contact Info

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