

# U.are.U<sup>®</sup> 5100 Module

FIPS 201 PIV, Certified USB Fingerprint Module



## APPLICATIONS

- Mobile ID terminals
- Compact embedded devices
- Battery-operated devices
- Devices requiring PIV standards

## FEATURES

- FIPS 201 PIV certified
- Low power consumption
- Fine-grained power control
- Compact size
- Landing lights for finger tracking
- Red/green status LEDs
- Blue illumination
- 500dpi and 1000dpi images
- High-durability glass top surface
- IP64-rated top surface sealed against dust and liquid
- High quality fingerprint image
- Counterfeit finger rejection
- Compatible with U.are.U SDKs

## PRODUCT DESCRIPTION

The U.are.U 5100 Module is a miniature USB fingerprint reader designed for integration into OEM equipment where fingerprint verification or identification is needed. It is tailored to the unique form-factor, power, usability and durability requirements of mobile ID devices, particularly those used in public-facing Civil ID applications such as voting, benefits-checking and micro-finance.

This self-contained module optically scans the fingerprint when the user touches the glass imaging window. Optical technology offers the highest combination of durability and ease of use.

The U.are.U 5100 Module is designed to simplify OEM integration. The top surface of the module is IP64-rated, sealed against dust and liquids\*. Its compact size and convenient mounting features help it fit easily into even small devices. The on-board electronics automatically control calibration and data transfer over the USB interface.

The U.are.U 5100 is designed to meet and exceed the FIPS 201 Personal Identity Verification (PIV) Image Quality Specification, a key industry standard. It produces 500 and 1000 dot-per-inch (dpi) fingerprint images in ANSI and ISO/IEC standard formats.

The U.are.U 5100 Module can be used with any standards-compatible fingerprint templates extractor or matcher, including the DigitalPersona<sup>®</sup> FingerJet<sup>™</sup> Biometric Engine.

## ABOUT BSD INFOTECH

BSD Infotech Pvt. Ltd. is located at New Delhi with total IT facilities allowing access to best IT resources to companies world wide with only one mission that is to provide best and economic IT professionals and to make business simple. We are Business Solution Developers allowing you to manage your manpower virtually working with our infrastructure, directly reporting to you on daily / hourly basis. We are taking advantage of the different cost-levels in India. We lease technicians on a full-time / hourly basis to companies in need of IT labour means access to a large pool of highly skilled yet relatively inexpensive personnel.

Combining our experience with our commitment to deliver quality service to our customers, we provide world-class IT professionals in time, at a competitive rate. We have the necessary infrastructure to provide you with the best. When hiring staff from us you will avoid the complications and time consumption of hiring competent in-house staff, and of course you will benefit from the lower labour costs.

The strength of the division is derived directly by the highly skilled, trained and experienced software professionals who have versatile and rich experience in their respective fields. This bank of excellent gray matter when combined with state of the art technology, in terms of software and hardware, produces world-class quality output, which makes our company, a thoroughly trusted entity to all our esteemed clients.

### RATINGS

Supply Voltage	5.0V ±5%
Supply Current—scanning	< 120 mA (Typical)
Supply Current—idle mode	< 120 mA (Typical)
Supply Current—suspend mode	< 0.5 mA (Maximum)
Temperature, Operating	0 - 40 C
Humidity, Operating	20% - 80% non-condensing
Temperature, Storage	-10 - 60 C
Humidity, Storage	20% - 90% non-condensing
Scan Data	8-bit grayscale
Top Surface	IP64-rated seal between top case and glass surface*
Interface	USB 2.0 High Speed
Weight	20 grams
Standards Compliance	FIPS 201 PIV, RoHS, WEEE, UL, USB, WHQL, REACH, CE, FCC, VCCI, AS/NZS, BSMI, KCC

### CONNECTOR POINTS

USB

Pin 1: +5V

Pin 2: Ground

Pin 3: Ground (shield)

Pin 4: USB D-

Pin 5: USB D+

### CONNECTOR TYPE

Hirose DF13-SP-1.25DS/equivalent

### AUXILIARY LED CONNECTOR

Pin 1: Aux LED Left

Pin 2: Aux LED Right

Pin 3: GND

*Technical data subject to change without notice.*

*\*IP64 rating is for the seal between the top case and the glass imaging window. Devices containing the embedded module must seal the module top case to their chassis or housing to extend the IP64 protection to the device.*

### KEY SPECIFICATIONS

- Pixel resolution: 500dpi (native), 1000dpi (interpolated)
- 8-bit grayscale (256 gray levels)
- Scan capture area: 12.8 mm x 16.5 mm
- Module size: 52 mm (l) x 31.4 mm (w) x 15.8 mm (h)
- USB 2.0 (High Speed)

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