The new SLK20 is a touch-based optical fingerprint module. It combines an innovative optical design, a 2 megapixel image sensor, and an ARM processor to create the ultimate biometric peripheral. It has a superior ability to capture large, high quality fingerprint images and to reject spoof fingerprints in hardware. The Silk 20 Module is available with license to the award-winning Innovatrics IDKit SDK.

Security features include: encrypted image data, encrypted template data, signed template, ability to embed and verify license keys.

The SLK20 is ideal for use in time&attendance, logical access, e-commerce, government ID, and other user identification applications.
### Hardware Specifications:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Type</th>
<th>Interface</th>
<th>PIV?</th>
<th>Matching</th>
<th>Size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLK20-MG0</td>
<td>OEM Module</td>
<td>USB</td>
<td>Yes</td>
<td>On PC</td>
<td>36.2 (l) x 44.2(w) x 15.85 (th)</td>
</tr>
<tr>
<td>SLK20-ME0</td>
<td>OEM Module - Embedded</td>
<td>USB and UART</td>
<td>Yes</td>
<td>In Hardware</td>
<td>36.2 (l) x 44.2(w) x 15.85 (th)</td>
</tr>
<tr>
<td>SLK01-ME0</td>
<td>OEM Module - Embedded</td>
<td>USB and UART</td>
<td>No</td>
<td>In Hardware</td>
<td>36.2 (l) x 44.2(w) x 15.85 (th)</td>
</tr>
</tbody>
</table>

### Mechanical Specification (mm):

<table>
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<tr>
<th>Connector Pinout</th>
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<tbody>
<tr>
<td>Pin 1</td>
</tr>
<tr>
<td>Pin 2</td>
</tr>
<tr>
<td>Pin 3</td>
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<tr>
<td>Pin 4</td>
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<tr>
<td>Pin 5</td>
</tr>
<tr>
<td>Pin 6</td>
</tr>
<tr>
<td>Pin 7</td>
</tr>
</tbody>
</table>

**Connector pinout:**

- **Pin 1:** +5V
- **Pin 2:** Gnd
- **Pin 3:** Shield
- **Pin 4:** USB D-
- **Pin 5:** USB D+
- **Pin 6:** UART TxD
- **Pin 7:** UART RxD

**Technical Data:**

- **Technology:** Optical
- **Image Capture Area:** 15.24 x 20.32 mm (FAP20)
- **Touch Surface Area:** 16.5 x 23 mm
- **Output Image Size and Pixel Resolution:**
  - 300x400 pixels @500 dpi (native),
  - 450x600 pixels @750 dpi (native),
  - or 600x800 pixels @1000 dpi (interpolated)
- **Image Bit Depth:** 8-bit grayscale
- **Interface:** USB 2.0 High Speed or 3.3V UART 2-wire (115.2kbs).
- **Operating Systems:** Windows 10; Linux; Android
- **Power Requirements:** 5V, supplied by USB
- **Operating Environment:** -20 to +55° C; 0-90% r.h. non-condensing
- **Certifications:** FCC, CE, RoHS, PIV
- **Matching Technology:** Innovatrics IDKit
- **Template Size and format:**
  - 1-4 KB (IDKit standard)
  - 1568 B (ISO 19794-2)
- **Matching Speed (on PC):**
  - Extraction: 0.2 secs
  - Match: 5000/sec
- **1-n:**
  - 1:200 on Hardware (std.)
  - 1:5000 on Hardware (extra fee)
  - 1:10,000 on PC (std.)
  - 1:50,000 on PC (extra fee)
- **Special Features:**
  - NFIQ score
  - WSQ compression
  - ISO template