HID Global’s pivCLASS Government Solutions portfolio makes it possible for facilities to upgrade their existing physical access control system (PACS) to achieve FIPS 201 compliance.

The pivCLASS Biometric Reader (RKCLB40) delivers the "Exclusion" assurance level defined in the National Institute of Standards and Technology (NIST) SP 800-116 guidelines. This reader works with the pivCLASS Authentication Module (PAM) to perform three authentication checks: PIV + PIN + BIO.

**PIV:** The pivCLASS system first determines the validity of the PIV card and its certificates using public key cryptography-based authentication. For instance, the system verifies the digital signature and performs path validation on the PIV authentication certificate and the biometric template data object.

**PIN:** As part of the PIV verification process, the cardholder must enter a PIN to unlock the card in order to retrieve the PIV certificate and biometric template.

**BIO:** After the card and its contents have been validated, the pivCLASS system compares the reference biometric template stored on the card with the biometric sample from the live finger.

If successful, three factors of authentication have been achieved. Only then will the pivCLASS system pass the appropriate cardholder ID data to the PACS controller for an access decision. This three-factor authentication protects against cards that have been revoked, counterfeited, altered, copied, cloned, lost, stolen or shared.

Optionally, the reader’s authentication mode can be lowered by the PAM to accommodate areas with reduced security requirements. This authentication mode can be dynamically changed from a central location in response to threat level, time of day or day of week.

The pivCLASS Biometric Reader is guaranteed to meet the stringent specifications for operation, reliability and interoperability with other Genuine HID® products.
## Specifications

<table>
<thead>
<tr>
<th>Model Name</th>
<th>RKCLB40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Part Number</td>
<td>924NPR</td>
</tr>
</tbody>
</table>

### Specifications

- **13.56 MHz Card Compatibility**: PKI-Based FIPS-201 Credentials including PIV, PIV-I, CIV, CAC, TWIC and FRAC
- **System Requirements**: These readers require HID Global’s pivCLASS Authentication Module (M2000) to support FICAM compliance
- **Typical Contactless Read Range**: FIPS 201 type cards can be read using either the contact or contactless card interface. Biometric authentication only available on the contact interface per FIPS 201

### FIPS 201 Type Cards, Contactless Interface

<table>
<thead>
<tr>
<th>PIV, PIV-I, CIV, CAC, TWIC and FRAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0&quot; (5 cm)</td>
</tr>
</tbody>
</table>

### 13.56 MHz Single Technology ID-1 Cards – SIO Data Model

<table>
<thead>
<tr>
<th>iCLASS®, Seos®, iCLASS®, MIFARE DESFire EV1, MIFARE® Classic</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0&quot; (5 cm)</td>
</tr>
<tr>
<td>5.5&quot; (14 cm)</td>
</tr>
<tr>
<td>5.1&quot; (13 cm)</td>
</tr>
</tbody>
</table>

### Mounting

- Double-gang size; designed to mount on double (preferable for stable wall mount) or single-gang switch box

### Color

- Black

### Keypad

- Yes (illuminated, 4 x 3)

### Dimensions

- 4.8" x 6.1" x 1.2"
  - (12.2 cm x 15.6 cm x 3.0 cm)

### Product Weight (Pigtail)

- 17.0 oz (484 g)

### Product Weight (Terminal Strip)

- 16.0 oz (454 g)

### Operating Voltage Range

- +12VDC

### Current Draw - Normal Standby Current

- 165 mA

### Current Draw - Maximum Average

- 215 mA

### Current Draw - Peak

- 275 mA

### Operating Temperature

- 14°F to 122°F (-10°C to 50°C)

### Operating Humidity

- 5% to 95% relative humidity non-condensing

### Storage Temperature

- -67°F to 185°F (-55°C to 85°C)

### Environmental Rating

- UL 294 and IP55 outdoor ratings

### Fingerprint Biometric Sensor Type

- Optical

### Transmit Frequency

- 13.56 MHz

### Protocol

- HID Global pivCLASS Protocol

### Wire Distance

- Six conductor connections per reader: full duplex four-wire RS-485 for communication (300 ft [91m], 24AWG), two wires for power (500 ft [152m], 22AWG)

### Wiring Connection

- Pigtail or Terminal Strip

### Certification

- FICAM tested, UL294 (U.S. & Canada), FCC Certification (U.S.), RoHS2

### Housing Material

- UL94 Polycarbonate

### UL Ref Number

- RKCLB40E

### Warranty

- Warranted against defects in materials and workmanship (see complete warranty policy for details)

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1. Read range listed is statistical mean rounded to nearest whole centimeter. HID Global testing occurs in open air. Some environmental conditions, including metalic mounting surface, can significantly degrade read range and performance. Plastic or ferrite spacers are recommended to improve performance on metallic mounting surfaces. Read ranges for FIPS 201 type cards will vary depending on the card manufacturer.
2. Standby Average - RMS current draw without a card in the RF field.
3. Maximum Average - RMS current draw during continuous PIV card reads.
4. Peak - Highest instantaneous current draw during RF communication.
5. FICAM-tested as part of complete physical access control system.