

# SecuGen **iD-SERIAL™**

## Model: XSDA03M

### Datasheet

#### **Contents**

1. General Description .....	2
2. Specifications .....	3
3. Connector Specifications.....	3
C1 Modular RJ-22 Serial Interface (4 Pin 3 Conductor) .....	3
C2 - Power Connector .....	4
4. Ordering Information .....	4
SecuGen Sales Contact .....	4

Copyright © SecuGen Corporation. All rights reserved. Information in the document is subject to change at any time without prior notice.

## **iD-SERIAL™**

Model No: XSDA03M

### **1. General Description**

SecuGen **iD-SERIAL™** is a next-generation fingerprint authentication system designed for integration into applications such as Point of Sale (POS) terminals and Time and Attendance (T&A) tracking stations or any other application where a serial interface is preferred. The **iD-SERIAL** incorporates SecuGen's stand-alone SDA03M™ module, featuring a ruggedized, high image quality SDOPP03M fingerprint optic module and an on-board processor. In addition to fingerprint enrollment, matching and storage capabilities, the **iD-SERIAL** includes SecuGen's high speed SecuSearch™ fingerprint identification algorithm for extremely fast 1:N search capabilities. The **iD-SERIAL** has an RS-232 interface and uses an RJ-22 modular jack for maximum flexibility in cable configurations. The **iD-SERIAL** also includes the Auto-On™ Automatic Finger Placement Detection function. An external power supply is included with each unit. The serial interface supports communication speeds up to 460800 BPS.

Integration of the SecuGen **iD-SERIAL** into any application can be facilitated by the **iD-SERIAL** Developer's Kit, which is sold separately.

### **Possible Applications**

- Point of Sale
- Time and Attendance
- Fingerprint Enrollment Station



## 2. Specifications

<b>CPU</b>	Samsung S3C2440 400MHz
<b>Flash</b>	32MB NAND Flash
<b>Identification User Capacity (1:N)</b>	3,000 users
<b>Verification User Capacity (1:1)</b>	3,000 users
<b>Fingerprint Capture Time</b>	0.3 sec
<b>Minutiae Extraction Time</b>	0.4 sec
<b>1:1 Matching Time</b>	0.1 sec
<b>1:N Matching Time</b>	0.2 sec (3,000 users)
<b>Supply Voltage</b>	3.3V DC regulated
<b>Current Consumption</b>	120 mA (normal), 320 mA (max)
<b>Image Resolution</b>	500 DPI
<b>Image Size</b>	260 x 300 pixels
<b>Effective Sensing area</b>	13.2 mm x 15.2 mm
<b>Communication Speed</b>	1200 ~ 460800 BPS (Serial RS232 Level)
<b>Operating Temperature</b>	-20°C ~ 65°C
<b>Operating Humidity</b>	90% or less RH, noncondensing
<b>Dimensions (W x L x H)</b>	88 mm x 140 mm x 67 mm
<b>Weight</b>	190 g

## 3. Connector Specifications

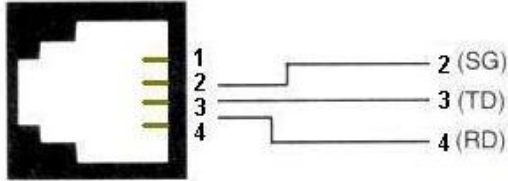
Name	Connector	Part No.	Vendor
C1	4 Pin 3 Conductor	Modular RJ-22 Serial Interface	Various
C2	2 Conductor	Barrel Jack for Power Supply	Various

### C1 Modular RJ-22 Serial Interface (4 Pin 3 Conductor)

Pin No	Name	States	Description
1	NC	-	-
2	SG	RS-232	Signal Ground
3	TD (TX)	RS-232	Transmit Data
4	RD (RX)	RS-232	Receive Data

# iD-SERIAL™

Model No: XSDA03M



## C2 - Power Connector

Pin No	Name	States	Description
1	VCC	Power	PIN – 2.1mm [3.3V DC regulated]
2	GND	Power	SLEEVE – 5.5mm diameter power ground

Input voltage: 110/220 (free voltage)  
 Output voltage: 3.3V DC (1A ~ 2A)  
 Inside diameter: 2.1mm  
 External diameter: 5.5mm



## 4. Ordering Information

Product	Part-number	Description
iD-SERIAL	EA4-0507A	Model No. XSDA03M fingerprint unit with serial connectivity, featuring SDA03M assembly in gray standalone case, 3.3V DC A/C adapter and DB9 serial cable
iD-SERIAL DK	EA4-0507Q	Developer's Kit includes iD-SERIAL (1 unit), documentation, software, and 1 year of technical support
DB9 Serial Cable (additional)	EA3-0025A	RJ22 male to DB9 female cable (connects iD-SERIAL to DB9 serial port on host PC), length 1.8 m (6 ft)

## SecuGen Sales Contact

[Sales@secugen.com](mailto:Sales@secugen.com)

Sales Tel: +1 (408) 834-7712