

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

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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



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2. Specifications

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

3. Connector Specifications

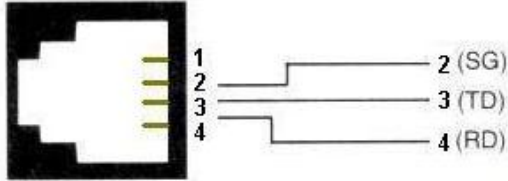
Name	Connector	Part No.	Vendor
C1	4 Pin 3 Conductor	Modular RJ-22 Serial Interface	Various
C2	2 Conductor	Barrel Jack for Power Supply	Various

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

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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

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