

TA100 Series Fingerprint Reader Service Manual

MAY 2006 • VERSION 1 *Compiled by K.L. Pang*

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Chapter 1: General Descriptions for TA100 Series



Model	: TA101 / TA102 / TA103
Template Size	: 1k (AC101) / 1.5k (AC102) / 2.8k (AC103)
Transaction Storage	: 30k (AC101) / 100k (AC102) / 120k (AC103)
Communication	: RRS232, RS485, TCP/IP
Identification Time	: < = 2s
FAR	: < = 0.0001%
FRR	: < = 1%
Temperature	: 0 - 45°C
Power	: 5VDC @ 2A

Overview

- One to many identification
- One to one verification
- 10 fingers enrollment per user
- Standalone and/or networked operation
- Power management
- Integrated wall mount design
- Voice greetings

Chapter 2: Components – Details and Functions

2.1 Details of Parts

2.1.1 Graphical Dot Matrix LCD

Figure 2.1 Front view of LCD

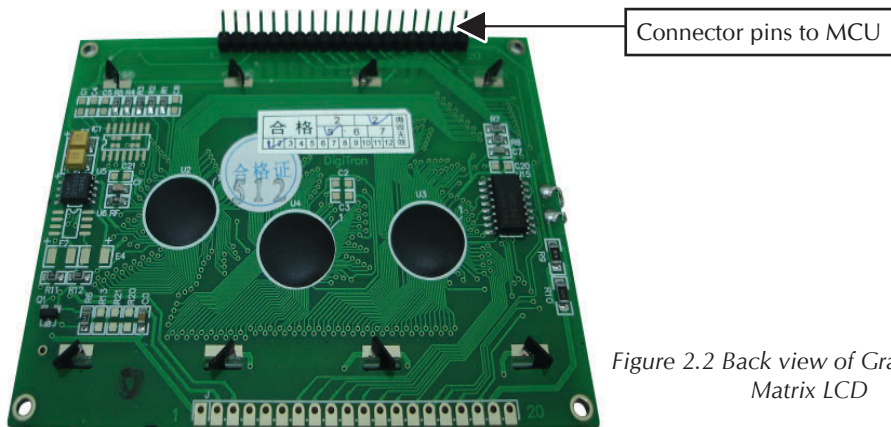
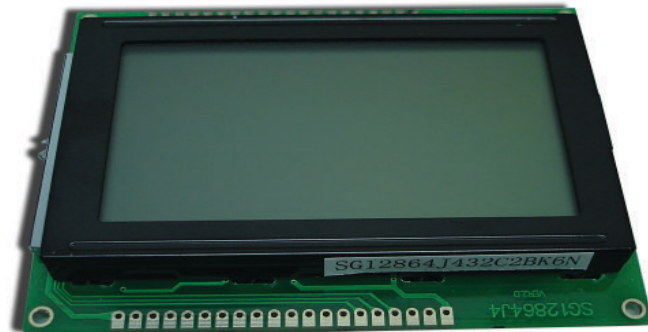


Figure 2.2 Back view of Graphical Dot Matrix LCD

Graphical Dot Matrix LCD displays text messages. During operation, it will prompt message to the user for necessary action. For TA100 series reader, the LCD dimension is 3.7 cm x 7 cm (128x64 pixels).

- Connector Pins

A cable to controller board connects this part. Improper connection could cause no LCD display when reader is turned on.

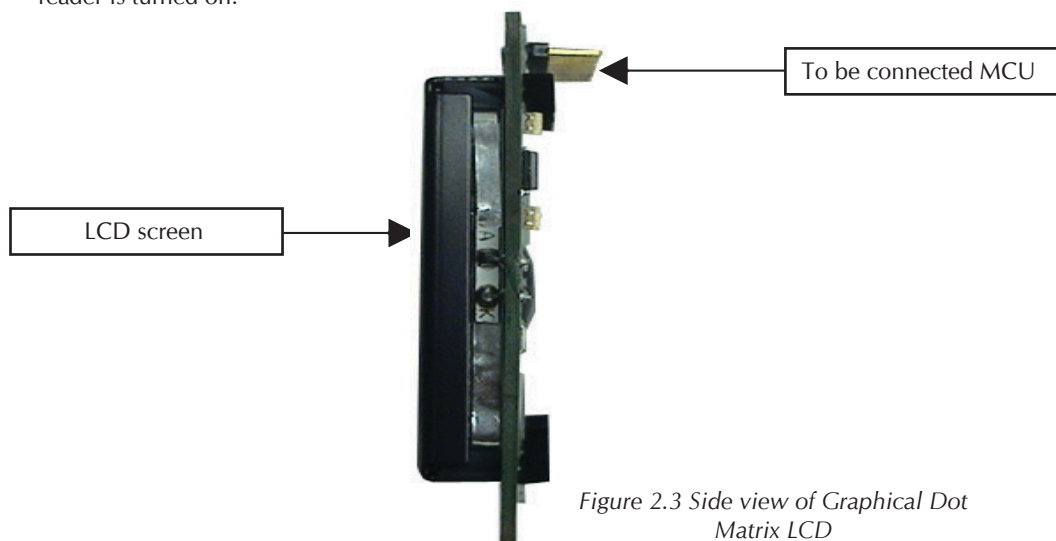


Figure 2.3 Side view of Graphical Dot Matrix LCD

2.1.2 Connections between Graphical Dot Matrix LCD and MCU.

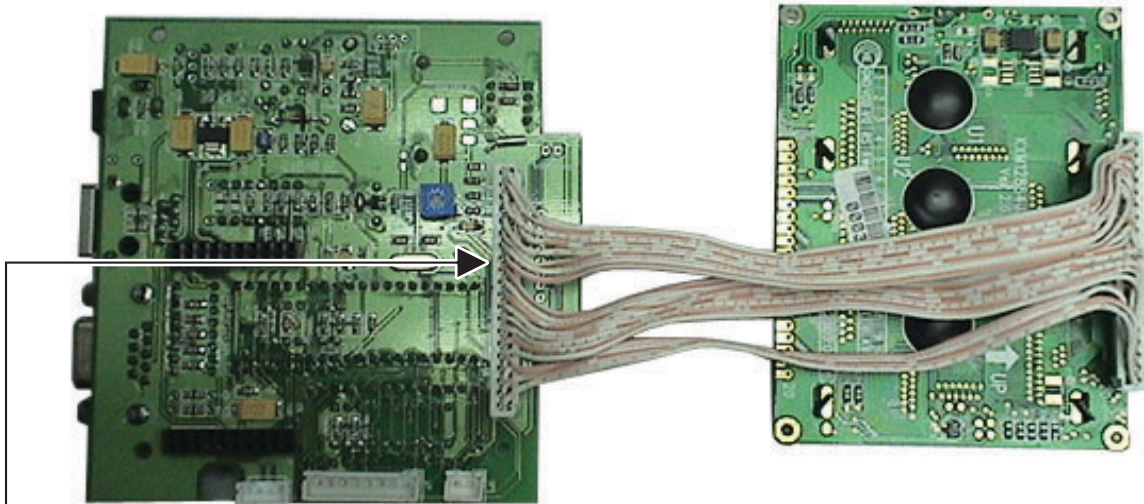


Figure 2.4 Connections between Graphical Dot Matrix LCD and MCU.

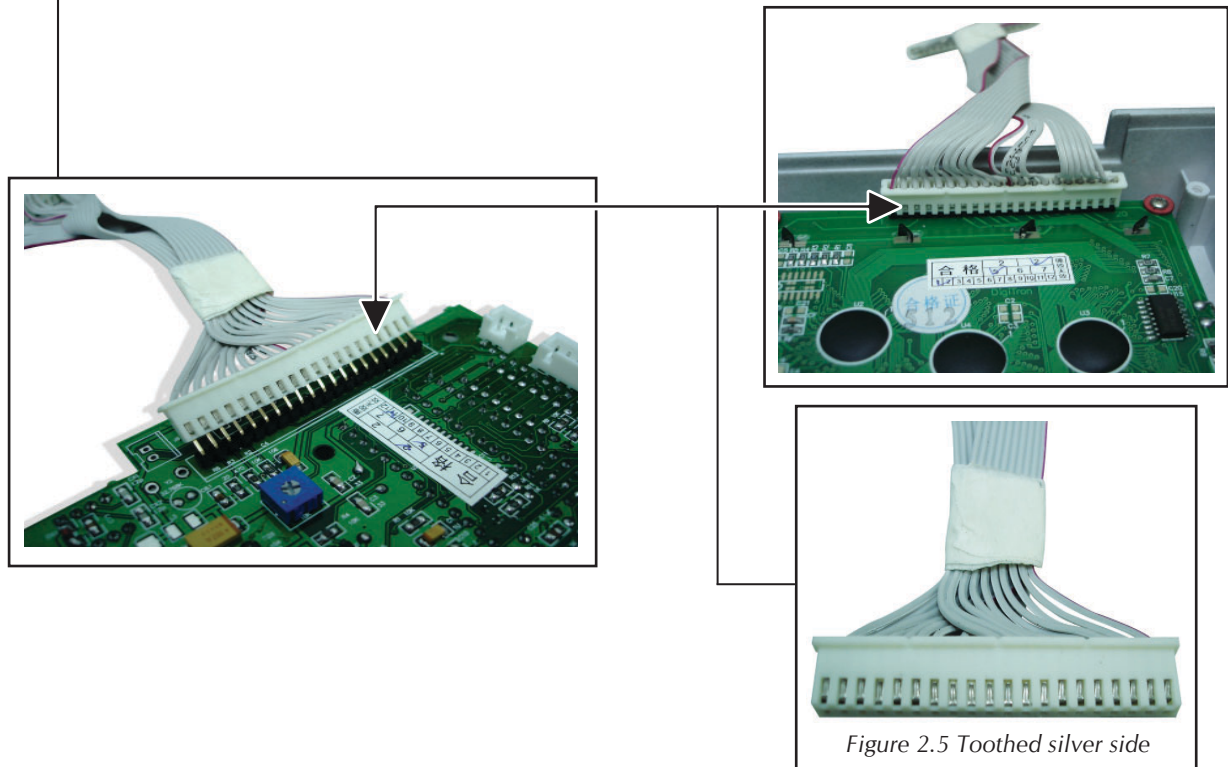


Figure 2.5 Toothed silver side

When cable is connected between Graphical Dot Matrix LCD and controller, make sure the toothed silver side of the displaying cable is plug as shown above.

Incorrect connection of this displaying cable could cause short circuit, which could spoil the LCD displaying board.

Cable connected at the controller board must also have the same direction as the LCD displaying board does.