Multi-functional T&A Terminal

- MT700 -

User's Manual

Version 1.0

Preface

About This Manual

This manual explains how to install, operate and maintain the MT700 Multi-Function Versatile Controller.

No part of this publication may be reproduced or used in any form, or by any electrical or mechanical means, without permission in writing from the manufacturer, which includes photocopying, recording, or information storage and retrieval systems. The material in this manual is subject to change without notice.

© Copyright 2013 unitech Electronics Co., Ltd. All rights reserved.
Unitech global website address: http:\\www.unitech-adc.com

Microsoft, Windows and ActiveSync are either registered trademarks or trademarks of Microsoft Corporation. Other product names mentioned in this manual may be trademarks or registered trademarks of their respective companies and are hereby acknowledged.

Regulatory Compliance Statements

FCC Warning Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following:

- Relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit that is different from the receiver.
- Consult the distributor or an experienced radio/television technician for help.

1. This Transmitter must not cohabitate or operate in conjunction with any other antenna(s) or transmitter(s).
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, avoid direct contact to the transmitting antenna during transmission.
3. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement
This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and consider removing the no-collocation statement.

Canadian Compliance Statement
This Class A Digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.
Cet appareil numérique de la classe A respecte les exigences du Règlement sur le matériel broilleur du Canada.

European Conformity Statement
Declaration of Conformity with Regard to the R&TTE 1999/5/EC and EMC 89/336/ EEC directives.

RoHS Statement

This device conforms to RoHS (Restriction of Hazardous Substances) European Union regulations that set maximum concentration limits on hazardous materials used in electrical and electronic equipment.

Taiwan NCC Warning Statement

交通部電信總局低功率電波輻射性電機管理辦法（930322）
根據交通部低功率管理辦法規定：
第十二條　經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
第十四條　低功率射頻電機之使用不得影響飛航安全及幹擾合法通信；經發現有干擾現象時，應立即停用，並改善至無幹擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Warranty

The following items are covered under Unitech Limited Warranty:
- MT700 Multi-Function Versatile Controller – 1-year limited warranty.
- Cables – three-month limited warranty.

Table of Contents

PREFACE ..... **I**
Regulatory Compliance Statements i
ABOUT THIS MANUAL ..... **I**
Warranty ii
CHAPTER 1 ..... **1**
Introducing the MT700 1
Tour of the MT700 1
GETTING STARTED **1**
Front View *2*
Side View *2*
Bottom View *3*
Front Main Board *3*
Back Terminal Board *4*
Setting up the MT700 4
Connecting Power *4*
Powering On the MT700 ..... *4*
Using the MT700 for the First Time 4
Using the Touch-screen *4*
Setting the Date and Time *5*
CHAPTER 2 ..... **6**
On-screen virtual Keyboard *6*
BASIC OPERATION **1**
RFID Reader (Optional) 7
RFID Card Verification *7*
Audio Input/Output 8
Built-in Camera 9
Tools/Utilities/Applications 10
Warm Boot *10*
Cold Boot *11*
I/O Card Control *11*
Registry Backup *12*

Func 9 ..... *13*
Server Manager *13*
MifareDemo *19*
CameraDemo *20*
WavTest *22*
Screen Rotation *23*
Calibration *24*
Net *25*
Windows CE Remote Management *26*
CHAPTER 3 ..... **29**
USB Port 29
DATA COMMUNICATION **1**
Establishing a Wi-Fi Connection ..... **錯誤! 尚未定義書籤。**
IP Address Setup ..... **錯誤! 尚未定義書籤。**
Obtaining an IP Address via DHCP Server ..... ***錯誤! 尚未定義書籤。***
Specifying an IP Address ..... ***錯誤! 尚未定義書籤。***
CHAPTER 4 ..... **30**
Adjusting the Backlight 30
POWER AND HARDWARE **1**
Hardware Reset 31
Performing a Software Reset 31
Performing a Warm Boot *31*
Performing a Cold Boot *32*
Terminal Block 33
APPENDIX A **34**
SYSTEM SPECIFICATION **1**
APPENDIX B **35**
WORLDWIDE SUPPORT **1**

Chapter 1

Getting Started

Introducing the MT700

The MT700 is a versatile fixed-mount TASHI (Time & Attendance, Access Control, Surveillance, Home Automation and Intercom) Controller. This multi-functional device offers a RFID reader (optional), a microphone, and an audio speaker. It runs on a Windows CE 6.0 operating system, which provides a variety of applications that benefit numerous industries.

Features

Internal System
- TI OMAP DM3730 with DSP 1GHz Processor
- Microsoft Windows CE 6.0

Memory
- 512M bytes DDR SDRAM
- 512M bytes NAND Flash

Display
- 7 inches color TFT-LCD touch screen
- 1024 x 600 resolution

Multimedia
- Speaker Audio Output
- Microphone Audio Input

RFID Reader (Optional)
- EM + HID
- 13.56MHz (ISO14443A or 14443A/B & 15693, or 14443A/4B+15693+NFC)
- Finger print 1:N high performance

Communication
- RS485
- USB 2.0 Host
- Ethernet 10/100Base-T

User Interface
- 12 programmable numeric keys
- Touch-screen

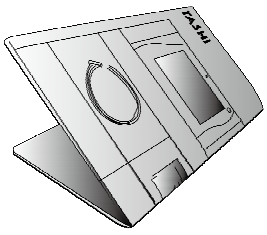
Software Programming Tools
- C#, VB.NET, C++

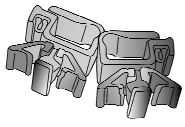
Programming SDK
- SIP and IP-CAM server/client SDK supporting
- ModBus SDK supporting
- Video Streaming, VoIP and V2oIP
- Elfin utility

Camera
- 1.3 megapixel CMOS camera

Tour of the MT700

Please make sure the following contents are in the MT700 box. If anything appears missing or damaged, please contact a Unitech representative.

		
MT700	Power Adapter / Cable	QRG paper note

			
10 & 12 pin Terminal Block Plug	Key * 2pcs	Rubber Cap	Cable tie