# TASHI

# A T&A Versatile Terminal



## A Versatile Terminal for T&A Application

MT380 is a compact size as well as small foot print IP based multi-function terminal with embedded Window OS, which targets mainly on Time & Attendance and Access Control applications.  Since it is fully Window based programmable, can also be applied to many segments such as loyalty card, shop floor....etc.; a variety of other value added applications.

MT380 supports Ethernet or wireless WiFi high speed communications, equipping with QVGA display and large LED good read notification, supporting various Auto ID readers, such as finger print, HID/EM proximity, or MiFare read/write reader, and is with big numeric keypad as well as function keys.

MT380 is programmable through a software development kit, SDK, also an optional, comprehensive, and ready to use T&A application template is provided on the terminal and PC.

## Hardware Main Features

• WinCE OS based operation
• Application reference template available for Time Attendance and
  Access control
• For specific application, a comprehensive SDK (Software Development
  Kit) is provided; it supports a variety of I/O driver APIs, for instance,
  communications, Auto ID reading, DI/O control,… etc.
• Touch screen with 3.5" color TFT-LCD and QVGA (320x240) resolutions
• Built-in 125Khz HID/EM Proximity reader, 13.56Mhz MiFare reader, or
  finger print reader
• Wired communication support USB (Host), Ethernet (PoE)  and serial
  ports (RS232/RS485)
• Optional wireless communication support high speed wireless LAN 802.11b/g
• Large good read dual color LED notification
• One SD open slot
• 2 Relay outputs , 2 photo-coupler inputs
• Watch dog, Temper switch

# unitech

# MT380-TA
# Specifications

## System Characteristics

- OS — WinCE Professional
- CPU — Intel PXA270 520Mhz
- FlashROM — 64MB
- SDRAM — 128MB
- Keyboard — 17 hard keys (12 numeric and 5 function keys)
- Display — 3.5'' color TFT-LCD QVGA (landscape 320x240) with touch screen function

## Power

- Power input — DC 12V/2A
- Mini UPS — One rechargeable Lithium-ion battery with @ 3.7V, 1200mAH for 1 hours operation and 3 days backup

## Communication and I/O

- RS232 — Full RS232 support (Housing 9pin to D-Sub 9pin cable)
- RS232/RS485 — Half RS232 support(RJ45 to D-Sub 9pin cable)/ RS485 support (RS485+, RS485-)
- Ethernet — One RJ45 with POE(DC5V /2A)
- USB — V1.1 Host ( Mini-5P to Type A Female cable)
- Wireless — Optional wireless 802.11b/g
- Relay — Two 2A/30Vdc, 0.5/250Vac
- Input — Two photo-couplers (3.3V ~ 12V)

PS: RS232/RS485 either one by S2 switch selection.

## Expansion

- SD slot — For storage

### Auto ID Reader

- EM Proximity — 125Khz
- HID — 125Khz
- MiFare — 13.56Mhz (ISO14443A or ISO14443A/B and ISO15693)
- Finger print

## Outline and Appearance

- Dimension — 228 mm (L) x 100 mm (W) x 35 mm (H)
- Weight — 485 gm

## T&A SDK & Application

- SDK

  Access Control and Time Management API, Sample code, and Document

- Access Control and Time Attendance Application
  - Data communication via Ethernet or RS485
  - Second reader supported by RS232/485
  - Supports 3 language display: English, Traditional Chinese (Big5), and Simplified Chinese (GB)
  - Manages up to 40,000 cards; stores up to 44,000 access logs
  - Optional fingerprint module supports up to 7,000 fingerprint sampling
  - Single entry in/out card reader supports Anti-Pass Back (corresponding in/out access control to prevent un-granted re-entry or exit)
  - Different passwords allowed for one card
  - After using card reading, users can either use password or fingerprint for verification
  - Built-in burglarproof sensor to prevent illegally terminal opening
  - Online status control in real time (door-opening, security, all sensitive points, fingerprint sampling, DI, DO)
  - Remote door-opening, security-enabling, security-disabling, controller-resetting
  - Authority combination setting: 128 designated periods, 64 groups, 8 holiday tables, 8 holiday types, weekly security plan, long-term weekly plan, door open alarm weekly plan, attendance weekly plan, and manual change of work shift
  - 256 card-free; password to open door coordinates with designated periods
  - Communication protocol for management side and reader adopts international standard for high security: Triple DES(3DES) encryption technology
  - Card control by unique serial number allows normal card application
  - 16 work shifts, free to make combinations
  - Same-card detecting function reduces repeated log records occupying your storage space
  - Substitute clock-in via user number, simultaneously allows times configuration

## Generic Application Programming SDK

- API for I/O drivers
- C#, VB.NET, C++

## Physical and Environment

- Temperature Operation — 14°F~122°F(-10°C~50°C)
- Temperature Storage — -4°F~140°F(-20°C ~ 60°C)
- Humidity — 5% to 95% RH non-condensing
- 2 Hours operation and 3 days backup

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