

SPECIFICATIONS



TouchStar



TouchStar Mini [Tm]

Supply Voltage	12 to 24 VDC	12 to 24 VDC
Power Consumption	< 5 W	< 5 W
Operating Environment [for indoor use only]	Ambient temperature 0°C ~ 60°C Humidity 10 ~ 90 %RH [non-condensing]	Ambient temperature 0°C ~ 60°C Humidity 10 ~ 90 %RH [non-condensing]
Dimension	158 x 240 x 73 mm	137.8 x 110.8 x 44.0 mm
Weight	< 1 kg	< 0.5 kg
Fingerprint Storage	720 fingerprint templates [basic] [optional 4400 fingerprint templates]	720 fingerprint templates [basic] [optional to 4400 fingerprint templates]
Event Log	At least 20,000 records [store in non-volatile memory]	At least 20,000 records [store in non-volatile memory]
Comm Interface	RS232 / RS485 / RS422 / Wiegand [multi-format]	RS232 / RS485 / RS422 / Wiegand [multi-format]
Micro-controller	8-bit 16MHz	8-bit 16MHz
Memory	Flash 16 MBit	Flash 16 MBit
LCD	128 x 64 graphic with LED backlight	na
LED	2 [pass/fail]	3 [Tri-color]
Clock / Calendar	Battery backup	Battery backup
Keypad	16 keys [with 4 Function keys]	15 keys [with 3 Function keys]
Input [optical isolated]	6	na
Output [optical isolated]	2	na
Relay	2 [for door strike and alarm]	na
Material	- Keypad [silicon rubber] - Enclosure [high impact PC-ABS]	- Keypad [membrane] - Enclosure [high impact PC-ABS]
Built-in	Contactless card reader [HID Std/ Ker/ Legic/ Mifare/ EM]	Contactless reader [HID Std/ Mifare/ Legic]
Optional	- Smart card interface - Barcode reader [external] - Magnetic stripe reader [external] - Modem [external] - Ethernet [built-in] - Stainless steel flush mount model available	- Modem [external] - Barcode reader [external] - Magnetic stripe reader [external] - Ethernet [external] - DZC/ Relay Control Board [external]
Mounting	na	Wall mounting bracket provided

Fingerprint Sensor

Type	Optical	False Rejection Rate	< 1 %
Light Source	LED [red]	Resolution	450 dpi
Verification Speed	< 1 second	Sensing Area	12.6 [W] x 16.2 [L] mm
False Acceptance Rate	< 0.0001 %	Minutiae Size	400 bytes [encrypted]

PRODUCT SERIES



TouchStar

Model Number	Description
TS2100-1SH	TouchStar [comes with 720 fingerprint templates and a HID proximity card reader]
TS2100-1EH	TouchStar [comes with 720 fingerprint templates, a HID proximity card reader and Ethernet connectivity]
TS2100-4SH	TouchStar [comes with 4,400 fingerprint templates and a HID proximity card reader]
TS2100-4EH	TouchStar [comes with 4,400 fingerprint templates, a HID proximity card reader and Ethernet connectivity]
TS2100-XXX	TouchStar [customizable for larger capacity of fingerprint templates and/or other types of contactless card reader eg. Mifare, Keri, Legic, etc]



TouchStar Mini [Tm]

Model Number	Description
TS1100-1SH	Tm [comes with 720 fingerprint templates and a HID proximity card reader]
TS1100-1EH	Tm [comes with 720 fingerprint templates, a HID proximity card reader and Ethernet connectivity]
TS1100-4SH	Tm [comes with 4,400 fingerprint templates and a HID proximity card reader]
TS1100-4EH	Tm [comes with 4,400 fingerprint templates, a HID proximity card reader and Ethernet connectivity]
TS1100-XXX	Tm [customizable for larger capacity of fingerprint templates and/or other types of contactless card reader e.g. Mifare, Keri, Legic, etc]



SOFTWARE PRODUCT SERIES

Model Number	Description
TS2900-Lo	TDM Lite [bundled free with every TouchStar device]
TS2900-Do	TDM Deluxe [bundle with a desktop fingerprint scanner]
TS2900-Po	TDM Professional [bundle with a desktop fingerprint scanner]
TS2900-Ao	TouchStar Software Development Kit

SYSTEM REQUIREMENTS

Computer	Pentium 133Mhz or higher	Hard Disk	50 Mb free space required
Memory	32Mb	Display	SVGA color 800 x 600 minimum
Drive	CD-ROM for installation	Operating System	Windows 95/98/ME/XP/NT/2000



CONTROL THE WORLD
AT YOUR FINGERTIPS

High security. Convenient. Password at your fingertip.



TOUCHSTAR MINI

TOUCHSTAR



A P P L I C A T I O N

TouchStar/ TouchStar Mini [Tm] is a fingerprint authentication device, specifically designed to provide irrefutable personal identification. This is recognized as one of the most effective tools to deter ghost employee, "buddy punching" and prevent unauthorized access.



TouchStar/ TouchStar Mini [Tm] can be used in various sectors such as manufacturing, engineering, financial, banking, medical, retail, etc.



- time and attendance system
- computer server room, safe deposit room, remote power station, research & development lab
- personnel verification
- prevent unauthorised access in remote areas
- prevent "buddy punching"

FEATURES | TouchStar & TouchStar Mini [Tm]

- easy to setup
- built-in HID contactless reader
- ethernet connection [optional]
- supports RS232, RS422, RS485, Wiegand & Modem protocols
- supports up to 3 fingerprints for each User ID
- stores 20,000 event log records
- supports time zone for access control
- supports multi-languages
- unique 1:N quick search function
- configurable ID length
- supports multiple access mode using a combination of ID, PIN, card and fingerprint



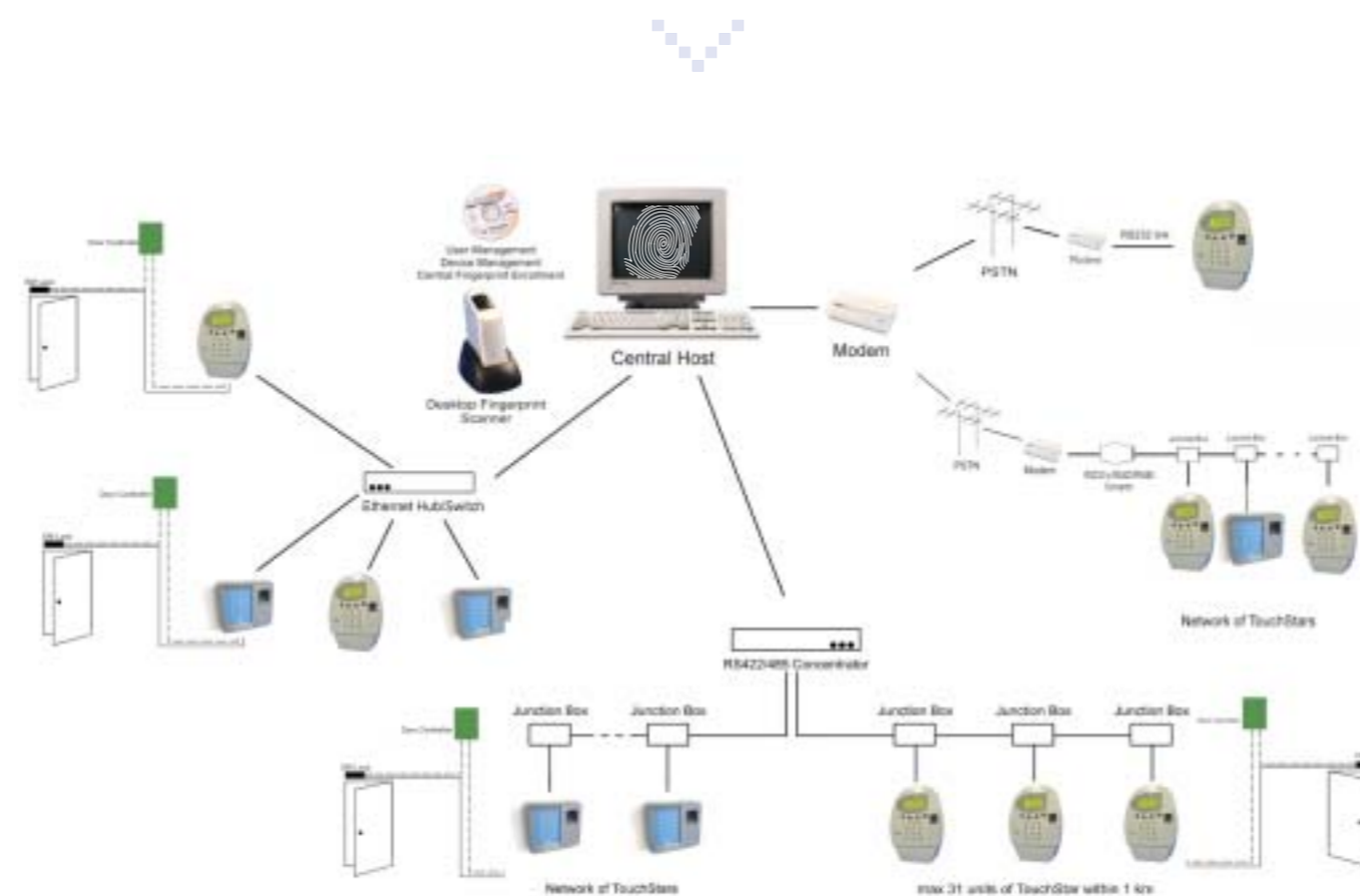
TouchStar Flush Mount

TOUCHSTAR DEVICE MANAGER

CONTROL THE WORLD AT YOUR FINGERTIPS.

TouchStar Device Manager [TDM] is a powerful software tool that maintains and monitors TouchStar devices anywhere. Every TouchStar can operate both as a standalone authentication device or part of a network specifically designed to provide irrefutable personal identification for security control, time & attendance, facilities control and mission critical applications.

EXAMPLES OF TYPICAL TOUCHSTAR NETWORKS



FEATURES | TouchStar Device Manager

- multi-level user access
- flexible communication options
- centralized fingerprint enrollment
- centralized device management
- time zone access control management
- flexible event log collection
- import & export user database and event log
- basic Time & Attendance Reports generator

TDM Lite

- Secure access using password
- Import and export of users' information, including names & departments
- Link uploaded records to user information
- Multiple database search functions
- Built-in database backup and restore functions
- Retrieval and recovery of transaction log records
- Synchronize device settings
- Time-attendance reports generation
- Flexible export function to text (ASCII) & excel format
- Dial up access to remote TouchStar devices



TouchStar Device Management Module



Fingerprint Enrollment Module



Calendar Management Module



Schedule Management Module

TDM Deluxe

has similar features as TDM Lite with the following additions:

- Multiple level user access using fingerprint or password
- Add, remove and track user profiles from a central PC
- Fingerprint enrollment and card registration function
- Upload or download user profiles from central PC to TouchStar devices
- Monitor multiple TouchStar devices within a network
- Realtime or scheduled data collection

TDM Professional

has similar features as TDM Deluxe with the following additions:

- Calender manager allows setting up of public holidays, company anniversary and shutdown dates
- Each device can hold 20 different schedules. Each schedule supports 8 definable time zones with 5 start and stop intervals per zone

R E P O R T S

- Time Attendance Detail Report [Single/Multiple Clocking]
- Time Attendance Summary Report
- Time Attendance Log Report
- Door Status Log Report
- System Configuration Log Report
- Failed Attempts Log Report
- Not Enrolled User Report
- User Without Access Rights Report
- User Without Schedule ID Report
- User Access Rights Report
- Download Status of User Report
- Schedule Download Status Report