autostar

TNC ENTERPRISE SOLUTION
Touchstar Nerve Centre

tnc

Fingerprint • RFID • Smart Card Solutions

www.autostar.com.sg

Powerful. Flexible. Speed.

Touchstar Nerve Center (TNC) from Autostar Technology offers unprecedented fingerprint identification solution for both Access Control and Time and Attendance applications.

For Access Control applications, our TNC can control up to two access control points. For entry-only control, each of these access control points can be hooked up with any of our Enterprise clients. For both entry and exit control, a pair of Enterprise client and a contactless card reader with Wiegand interface can be used at each access control point. In a very high security application, our TNC can provide a single access control point with any of our Enterprise clients as the entry and exit readers.

For Time and Attendance applications, you can hook up to three Enterprise clients so that more people can be processed at any point of time. This effectively improves the throughput of the clocking system. In addition, since only one TNC is required for three Enterprise clients, the total system costs would be reduced.
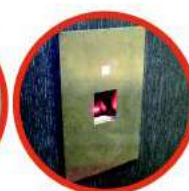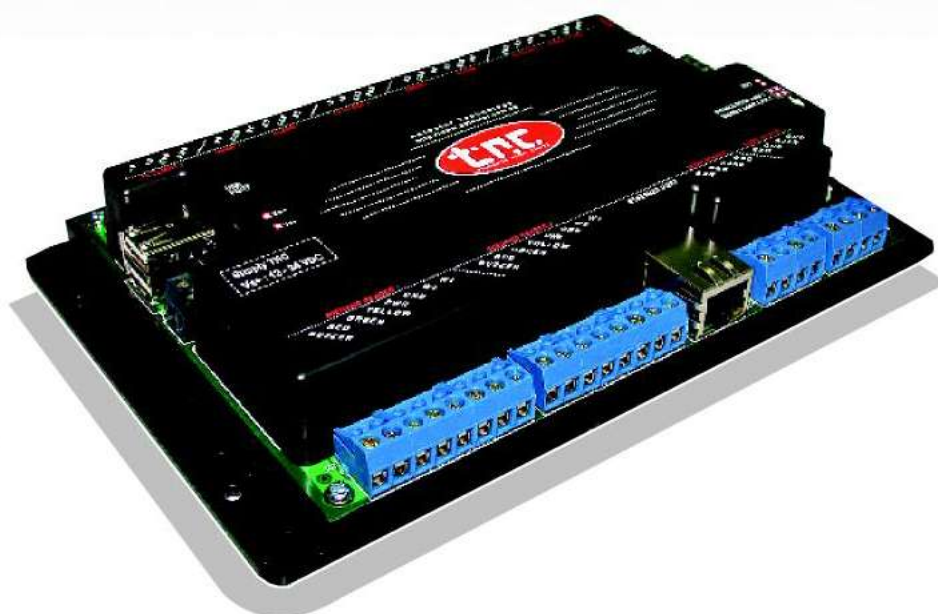
At the heart of our TNC is a powerful processor that provides very high matching speed with highly reliable positive identification. With a built-in ethernet interface, fingerprint template management would be more efficient and faster. Fingerprint template capacity can be increased by adding a SD memory card into our TNC to meet the most stringent demands. All our Enterprise clients provide a Wiegand output interface to cater for integration with any of the popular third party controllers in the market.

FEATURES

- Support up to 3 Enterprise clients
- Flexible
- Easy to set up
- Build-in ethernet connectivity
- Supports Wiegand interface
- Supports up to 6 fingerprints per ID
- Stores 100,000 event logs
- Supports time zone for access control
- 1: N matching available
- Configurable ID length (3-10)
- Supports multiple factor authentication with any of these factors i.e. ID, PIN, Card and fingerprint.
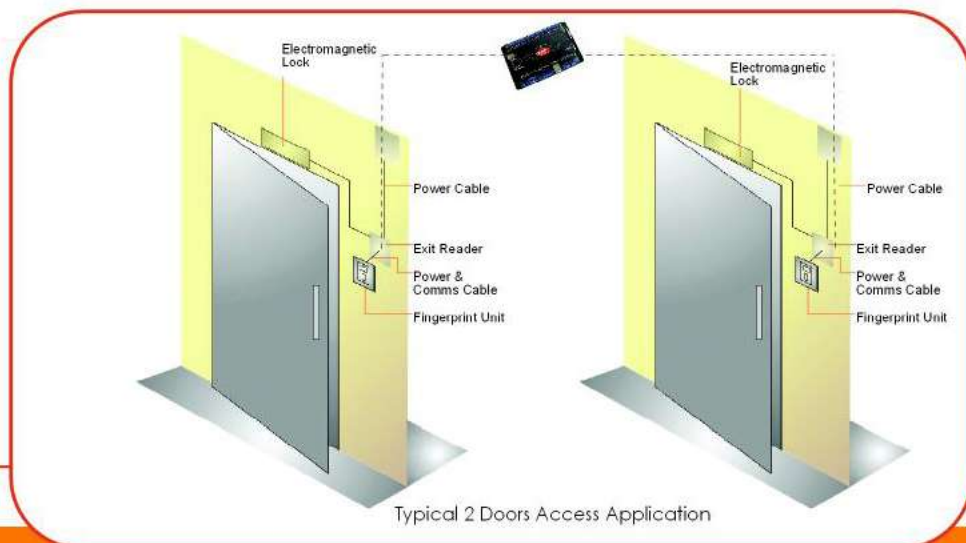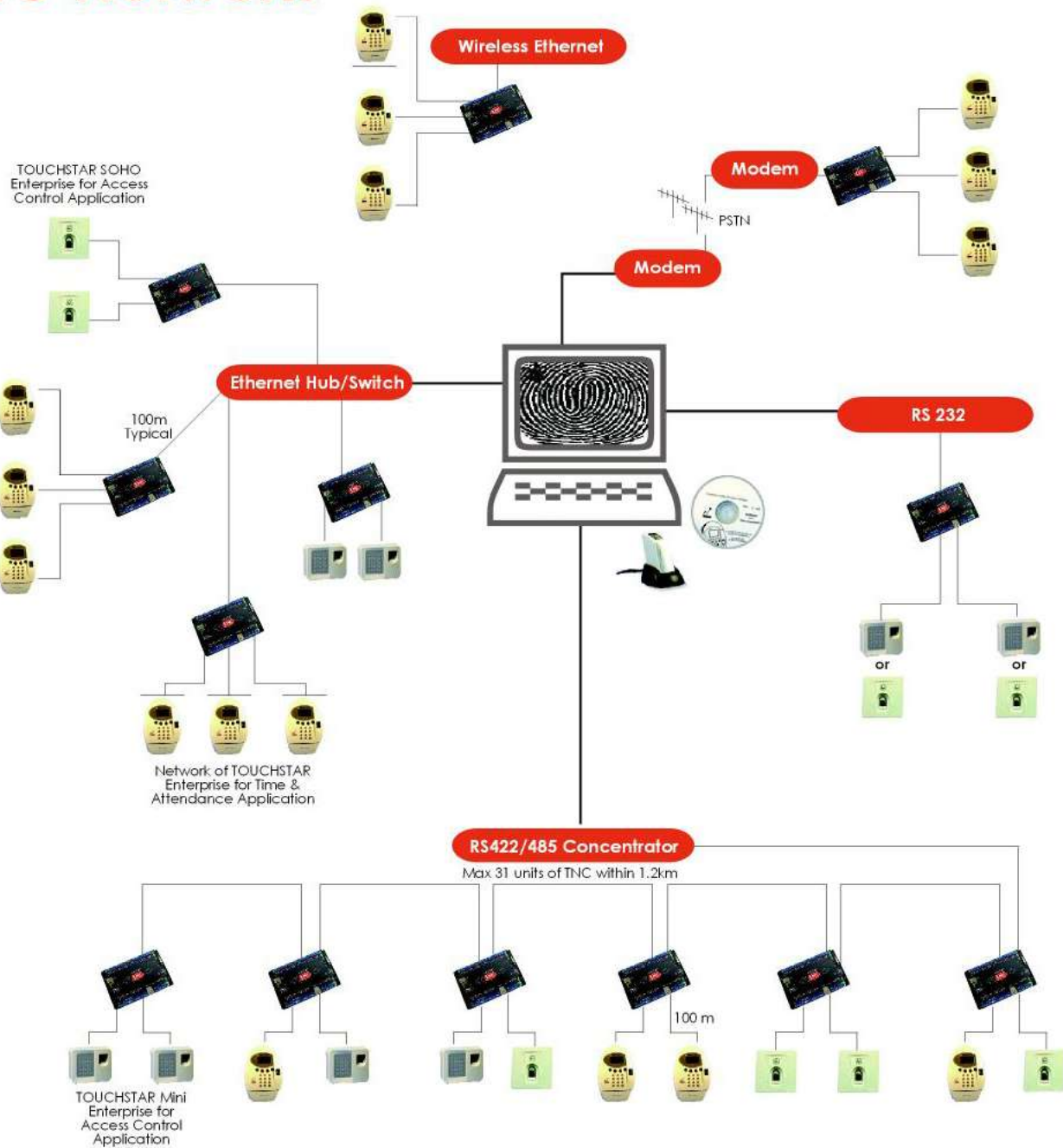
APPLICATIONS

- Time and Attendance and control access to computer server room, safe deposit room, remote power station, research and development laboratory.
- Personnel verification
- Prevent unauthorised access control
- Prevent "buddy punching" or "ghost employee"

* Enterprise - Touchstar / Touchstar Mini / Touchstar SOHO

TNC Network

Wireless Ethernet

Modem

PSTN

Modem

TOUCHSTAR SOHO
Enterprise for Access
Control Application

Ethernet Hub/Switch

RS 232

100m
Typical

or

or

Network of TOUCHSTAR
Enterprise for Time &
Attendance Application

RS422/485 Concentrator

Max 31 units of TNC within 1.2km

100 m

TOUCHSTAR Mini
Enterprise for
Access Control
Application

Electromagnetic
Lock

Electromagnetic
Lock

Power Cable

Power Cable

Exit Reader

Exit Reader

Power &
Comms Cable

Power &
Comms Cable

Fingerprint Unit

Fingerprint Unit

Typical 2 Doors Access Application

TNC Specifications

o **Supply Voltage**	12 to 24 VDC
o **Power Consumption**	2A @ 12VDC when operating 3 Enterprise clients
o **Dimension**	200 x 127 x 33 mm
o **Weight**	0.4 kg
o **Fingerprint Storage**	5000 Templates
o **Event Log**	100000
o **Comm Interface**	1 RS232/RS485/RS422, 1 TCP/IP, Modem (external)
o **Clock/Calendar**	Battery backup
o **USB Port**	2 (For optional WiFi USB dongle)
o **SD Card Interface**	1 (for template expansion)
o **Fingerprint Unit Interface**	Up to 3 Enterprise clients can be connected
o **Door Control Relay**	2 (for two doors control)
o **Alarm Relay**	2 (for two doors control)
o **Door Sensing Signal**	2 Door Ajar, 2 Door Exit (for two doors control)
o **Evacuation Signal**	1
o **Wiegand Input Port**	2 (Include three Led outputs signal ,one Buzzer output signal , and power supply output on each port)
o **Fingerprint Minutia Size**	max 798 bytes
o **Identification Speed**	1 second (1:N with 1000 template)
o **Verification Speed**	< 1 second
o **False Acceptance Rate**	0.0001 %
o **False Rejection Rate**	< 1 %

Enterprise Client	TOUCHSTAR Enterprise	TOUCHSTAR Mini Enterprise	TOUCHSTAR SOHO Enterprise
Power Supply	By TNC	By TNC	By TNC
Operating Environment	Ambient 0-60°C Humidity 10-90% RH	Ambient 0-60°C Humidity 10-90% RH	0 - 70°C
Dimension (WxHxD) mm	158 x 240 x 73	138 x 110 x 44	86 x 86 x 35
Weight	<1Kg	<0.5Kg	<250g
Fingerprint Sensor	Optical 500dpi Area 13.1m x 15.1m	Optical 500dpi Area 13.1m x 15.1m	Silicon 1 million wear cycle
Rotation Tolerance	+/- 90 degrees	+/- 90 degrees	+/- 90 degrees
LCD	128x64 Graphic with LED Backlight	None	None
LED	2	3	3
Keypad	16 Keys [with 4 Functions Keys]	15 Keys [with 3 Functions Keys]	Door Bell
Material	- Keypad : Silicon Rubber - Enclosure : High Impact PC-ABS	- Keypad : Membrane - Enclosure : High Impact PC-ABS	- Keypad : Membrane - Enclosure : High Impact PC-ABS
Contactless Card Reader	HID/Mifare/Felica/EM/ LEGIC/iCLASS	HID/Mifare/Felica/EM/ LEGIC/iCLASS	HID/Mifare/Felica/EM/ LEGIC/iCLASS
Optional	- Smart Card Interface - Barcode Reader [external] - Magnectic Stripe Reader [external] - Stainless Steel Flush Mount		

Our Software

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 Express

Managing of devices
- Configuration of devices' communication mode
- Configuration of devices' properties

Managing of users
- Central fingerprint enrollment and access rights assignment
- Allows import and export of user information
- Allows easy user records synchronization between devices and software
- Allows mirroring of user records between devices and software

Managing of log records
- Allows uploading from devices
- Allows exporting to text
- Allows generation of time attendance reports
- Standalone module supporting continuous or scheduled uploading

Managing of administrators
- Allows different software module access privilege

Auxiliary features
- Backup and restore functionality

TDM Express Professional

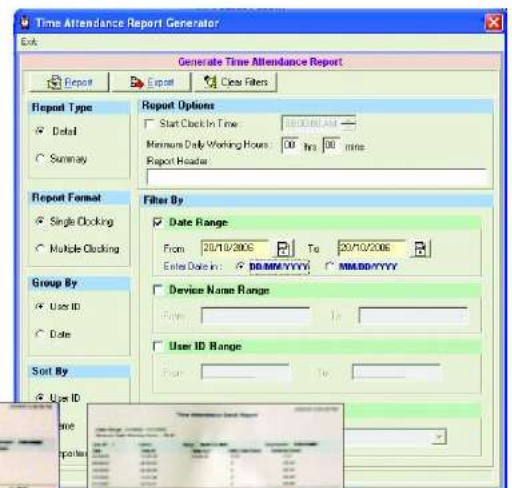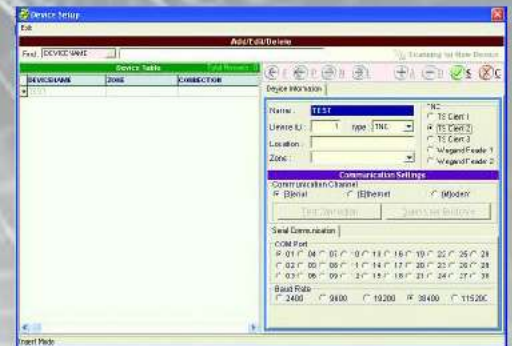Has similar features as TDM Express with the following additions:

Managing of access timezone
- Allows users' accessibility to be controlled by schedules
- Maximum 20 schedules; each schedule has 8 definable periods of accessibility
- Allows creation of 2 calendar years with definable public holidays

Reports

Reports avaible in TDM Express
- Time attendance detail report (single/multiple clocking)
- Time attendance summary report
- Time attendance log report
- Event trace log report
- Failed attempts log report
- User without fingerprint enrollment report
- User access rights report
- User without access rights report

Product Series

Model Number

TNC5000	TOUCHSTAR Nerve Centre with 5000 fingerprint templates

Model Number : Our E-Series

E51-H	TOUCHSTAR Enterprise with HID reader
E51-M	TOUCHSTAR Enterprise with Mifare/ Felica reader
E51-E	TOUCHSTAR Enterprise with EM reader
E52-H	TOUCHSTAR Mini Enterprise with HID reader
E52-M	TOUCHSTAR Mini Enterprise with Mifare/ Felica reader
E52-E	TOUCHSTAR Mini Enterprise with EM reader
E53-H	TOUCHSTAR SOHO Enterprise with HID reader
E53-M	TOUCHSTAR SOHO Enterprise with Mifare/ Felica reader

Software Product

ES 5900-00	TDM Express (bundled with desktop fingerprint scanner)
ES 5900-PO	TDM Express Professional (bundled with desktop fingerprint scanner)
ES 5900-AO	Enterprise Development Kit
ES 5900-AD	Xpansion Pack

System Requirement

Computer	P3 or Higher with x2 USB Port
Harddisk space	Min 100Mb
Drive	CD Rom for installation
Display	SVGA 800 x 600 min
OS	Vista / Win XP/ 2000

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