

## 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	32-bit 96MHz	32-bit 96MHz
Memory	Flash 32 MBit	Flash 32 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]	1	na
Relay	1 [for bell control]	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/ Ker/ Legic/ Mifare/ EM]
Optional	- Smart card interface - Barcode reader [external] - Magnetic stripe reader [external] - Modem [external] - Ethernet [built-in] - Stainless steel flush mount model available - DZC/ Relay Control Board [external]	- 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	500 dpi
Verification Speed	< 1 second	Effective Sensing Area	13.1 [W] x 15.1 [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 e.g. Mifare, Ker, 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, Ker, 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



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