



## Specification

# TouchLock Biometric Fingerscanner

<b>Connectivity</b>	<b>Ethernet - 10/100Mbps configurable or automatic</b>
Application-level protocols	HTTP & HTTPS, FTP
Firmware upgrades	XML based configuration
Connectivity alternatives	RS485 or RS232, (Serial Baud rates: 300 to 115200 bps) on ext. power, Wiegand, USB Serial or USB serial Host mode
Data link protocol	Ethernet, Fast Ethernet
Power supply (external):	External option: 8-18 Vdc @ 500 mA / USB option: 5 Vdc @ 500 mA
<b>Sensor</b>	<b>High Resolution (Native 640X480), Auto-On finger detect, C-MOS Ambient light &gt; 5000 Lux (or 50'000 with "Smart Capture" algorithm)</b>
Enrolment time	Approx 1 second (single template) plus user navigation of menus
Verification time	Approx 1 second
False rejection rate (FRR)	Administrator defined (typically less than 0.013)
False acceptance rate (FAR)	Administrator defined (typically less than 0.0001)
<b>Template storage capacity</b>	<b>Dependant on template type used: If ANSI standard: 32'000 default</b>
Template type / size	ANSI (ISO/IEC 19795-4 interoperability standard) - default template size 1200 bytes (configurable)
Algorithm	Identix L1 FIPS201 PIV certified (ANSI/NIST)
Scanner (sensor) lens	High strength solid tapered material up to 10mm thick, high strength, scratch resistant lens
<b>Verification options</b>	<b>Finger only (Finger = Biometric template), Finger + Card, Card only</b>
Allowable finger rotation	+/- 18 degrees
Other features	Latency detection, Auto finger placement detect
<b>Operating system / Processor</b>	<b>Linux / Ingenic MIPS32 380 Mhz processor</b>
Security	SHA-1 Cryptographic hardware engine
USB Host Internal	For factory memory, peripheral or communications expansion
Storage capacity / RAM	256 MB / RAM: 64 MB 32bit (minimum 60'000 transactions)
External casing	Polycarbonate monocot shell (extremely high strength)
<b>Dimensions</b>	<b>66 x 111 x 58 mm (W x H x D)</b>
Ingress protection (IP) rating	IP65
Operating temperature	-10 to +50 degrees Celsius
Time zones	30 (Access Control) including 2 special use time zones
Multi I/O connections	External supply (5 Vdc), RS485, RS232, Wiegand In/Out, REX / door monitor / alarm
<b>Door relay</b>	<b>Reference free NC/NO contacts (available when not USB powered)</b>
Tamper control	Yes - activated when removed from wall
Audio	Multi tone audible alert
LED's	Red/Green: Fingerscan operations, Card scan operation, Programmable option
SmartCard reader	On-board Mifare and HID iClass options
User connections	External supply in: 8-18 Vdc via 2.5 mm DC jack Ethernet - RJ45 USB Serial/Host - side access mini-USB Multi I/O - 20 way IDC shrouded header with plug and flying leads

