

NetSecure



Family of Internet-ready Security and Access Control Solutions

Biometrics Solutions and Systems Integration

NetSecure Solutions

- Biometrics and Smart Cards
- Access Controls
- Radio Frequency Identification



The **NSL-210** supports door access control.

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Biometrics refer to measurable, physical characteristics or personal behavioral traits used to recognize the identity, or verify the claimed identity, of a person. Several biometrics can be used including hand geometry, iris scan, fingerprint patterns, facial characteristics, DNA sequencing, voice prints, and even traditional hand written signature.



Sensitive data or secured areas can be protected using biometrics. Unlike passwords or physical keys, biometrics cannot be lost or forgotten, and is always carried along by the owner wherever he goes.

Biometric characteristics like fingerprint or iris patterns can be stored securely in smart cards. Together, they can be used to implement secure, off-line e-commerce transactions like e-ticketing. Potential applications abound for industries like transportation, telecommunication, healthcare, government, banking, and manufacturing.

Mozcom can develop solutions to

companies looking into deploying biometrics-based applications in a wide-area networking using Internet technology.

The **NetSecure Lite NSL-200** and **NSL-210** use fingerprint recognition technology to perform reliable timekeeping and access control. It runs on an embedded Linux operating system.

Using embedded optical scanners from DigitalPersona, they do not require a PC to run. However, a Microsoft Windows-based program for full time-keeping monitoring and reporting is included.

The units can be fitted with an RFID (Radio Frequency Identification) reader or a smart card reader depending on the customer's preference. The **NSL-210** model supports access control with built-in interface to electromagnetic plate locks, electric strike and bolt locks.

Users login or logout using their fingerprint or PIN. The **NSL** can store up to 1,500 user templates

but only takes a maximum of about 2 sec to recognize a fingerprint. A bright LCD and a built-in speaker provides visual and audio feedback. For people with poor fingerprint quality, a PIN may be defined instead.

The units have built-in USB port where you can insert a USB Flash Drive to download and backup the database.

User administration and backup is simple and can be carried out locally using the user-friendly and intuitive on-screen menu. It can also be administered using the built-in USB port; using an RS-232 serial port; or using the built-in Ethernet port over a network.

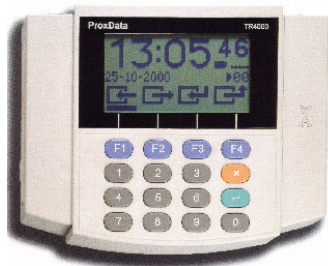


The **NSL-200** uses biometric identification and comes with TCP/IP connectivity.

Scanner Type	DigitalPersona U.are.U 4000 Optical Scanner
Capacity	1,500 fingerprint templates; 50,000 transactions
Identification Time	<= 2 seconds
False Acceptance Rate	<= 0.0001%
False Rejection Rate	<= 1%
Display	128 x 64 blue backlit LCD; red and green LED for status
Software Included	Microsoft Windows-based time and attendance management system
Operating System	Linux
Connectivity	RS232/RS485 serial, TCP/IP Ethernet, USB 1.1 Flash Drive
Physical Attributes	Dimension: 240 x 138 x 46mm; Operating Temperature of 0 to 45C; Operating Humidity of 20% to 80%
Access Control (for NSL-210)	50 time zones, five groups, 10 open door combination, 10A/12VDC relay switching value or output voltage



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The NSL-100 TimeKeeper unit can be fitted with an RFID, barcode or magstripe reader based on user requirement.

Radio Frequency Identification (RFID) Solutions

Radio Frequency Identification (RFID) is a method of remotely storing and retrieving data using devices called RFID tags. A tag is a small object, such as an adhesive sticker, that can be attached to or incorporated into a product. RFID tags contain antennae to enable them to receive and respond to radio-frequency queries from an RFID transceiver.

The purpose of an RFID system is to enable data to be transmitted by a portable device, called a tag, which is read by an RFID reader and processed according to the needs of a particular application. The data transmitted by the tag may provide

identification or location information, or specifics about the product tagged, such as price, color, date of purchase, etc.

RFID applications range from keeping track of warehouse and store inventory, to identifying cars or people for access control. RFID's are envisioned to eventually replace UPC/EAN barcodes used in retail products since it can store more information.

Vertical applications are in wide use for industries like transportation, healthcare, door access controls, retail, home and office building automation. Commercially avail-

able products exist that can be embedded under the skin of human to store personal medical information or animals for tracking purposes.

Mozcom carries an affordable line of RFID readers and tags. Mozcom can customize solutions using RFID based on customer requirements.

Mozcom also offers off-the-shelf RFID solutions like the NSL-100. It can monitor time and attendance over a network and can work in standalone mode with battery backup of up to 8 hours. It can be configured to read RFID, magstripe, or barcode ID's.

NetSecure Access Control

Building on its core technology of biometrics, smart cards, RFID, pinpads, magstripe and barcodes, Mozcom integrates these technology with Internet access to provide the most feature-rich door access control product in the market.



The NetSecure

access control system differs from existing access control products primarily in its basic design philosophy. **NetSecure** was designed with Internet technology in mind. It does not matter whether you are using fingerprint scanners, or RFID readers or smart card readers at the user end. As long as all these devices are connected to an IP network, they can talk to the main **NetSecure** controller and control physical access to secure areas.

NetSecure works with electromagnetic plate locks, electric strike or bolt locks.



The locks are controlled by secure devices such as fingerprint scanners, proximity readers and smart card readers.

Secure Contact and Contactless Smart Card Solutions

The smart card, a plastic card with an embedded microprocessor silicon chip, can be found in use around the world. Vertical applications are in wide use for industries like transportation, telecommunication, healthcare, government, banking, manufacturing and retail.

Smart card applications include



keeping track of Loyalty points, stored value debit cards or electronic purses, secure identification system, access entry security, and many more.

Mozcom carries an affordable line of USB-based smart card readers that complies with PC/SC, EMV Level 1 and MS WHQL standards. Popular ISO-compliant memory cards and full microprocessor cards

are supported. Contactless, contact-based and simple balance readers are available.

Smart cards can be integrated with the **NetProfit** Point-of-Sale (POS) and **NetSecure** access controls.

For companies who want to deploy smart card-based applications without the trouble of in-house development, Mozcom can customize a solution.

About Mozcom

Mozcom was established in 1994, making it the Philippines' 1st commercial ISP. Its nationwide pure-IP backbone was the first of its kind, and to this day, provides the infrastructure that runs corporate virtual private networks (VPNs), the campus network of the major educational and research institutions, and provides true dialup roaming for mobile users from Northern Luzon to Southern Mindanao. Mozcom is expanding to provide total business solutions. It also specializes on open source, XML, Web Services, mobile, e-commerce, biometrics, smart cards and RFID technology.

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