Reflex 72 – Product Features and Benefits

Product Features & Benefits

Introduction

Today the need for Smart Cards have grown into the area of Network Security and Electronic Commerce. As Smart Cards start to be distributed widely, there is now a new need for the ability to use these Smart Cards not only everywhere, but anywhere. The answer to this is a Smart Card reader.

Why the Reflex 72?

To ensure the growth of Smart Cards, a potential user must be able to use the card easily and at the user's convenience. This means that Smart Card readers need to be deployed everywhere. A user will be encouraged to use smart cards is they can use them at home, office, business or even at the point of sales.

With Magnetic cards, 'secure' transactions can only take place at secure machines like an ATM or within a bank. To persuade the users to take advantage of the additional security that Smart Cards can provide, a user must be able to perform the same transaction securely from any location where smart card readers are available. The Reflex 72 has been specially designed with just this view in mind.

Reflex 72 - Features

SMART CARDS SECURITY
WHENEVER, WHEREVER

The Reflex 72 is designed to serve this purpose. It is a high quality reader which is offered at a low price. Designed to be easily integrated into any location, the Reflex 72 draws the electrical power necessary to operate directly form the PS/2 port of the PC. This means an end to bulky power supplies and problems with the differences of power supplies from around the world.

The small size of the Reflex 72 (7.5cm x 7.0cm x 2.5 cm) and its weight that is less than a mouse, makes it all the more portable.

PC/SC Plug n Play

Installation and complex drivers are now a thing of the pass. The Reflex 72 comes with 2 types of drivers. One for the standard PC to Reader communications, and the other, Microsoft's PC/SC standard. The Plug n Play compliance of this reader makes the installation as simple as connecting the reader, turning the PC on and then inserting the driver diskette when automatically prompted. All that remains is for the user to invoke an application the uses the reader.

Cards Supported

Compatibility with smart cards is assured with a new feature that allows the user to continually upgrade the necessary files. As the newer smart cards arrive on the market, the ability to support these cards can be added by simply replacing a few files. These files can be obtained easily by contacting readers@slb.com.

Today, the reader supports all Microprocessor cards and Most memory cards. The only memory cards that cannot be supported are those needing special voltages to write (i.e. 21 volts). Even then, the Reflex 72 can still read these cards.

Cryptographic Cards and the Banking World

Almost all of secure online transactions performed today use cryptographic cards. These cards need a very exact power supply on have little tolerance for variations. Despite its small size and portability, the Reflex 72 is capable of supplying an exact current to the cards ensuring that the demanding cryptographic calculations are performed accurately. The Reflex 72 is even compliant with the Europay MasterCard Visa (EMV) standards.

Reflex 72
A Truly Universal Reader

High Speed

Time is money and the Reflex 72 helps you do the necessary secure transactions at speeds up to 158Kbps. This is the speed between the card and the reader. The communication between the Reader and the PC is limited to the speed of the Serial port of 115.5Kbps.

Multi OS support

To ensure that the Reflex 72 supports all the operating systems today, the Reflex 72 is compatible with Windows 95 and NT4 and even windows CE and JAVA OS.

In order to be ready for the future, the Reflex 72 will support the Windows 98 and NT5 when these Operating systems are released.

Keeping Up with Changes

As technology moves forward at an incredible pace, many products become obsolete or outdated quickly. The Reflex 72 has be built to withstand these changes as best as possible without either increasing the cost sacrificing any quality.

The key to this design was to keep the crucial elements like electrical signaling and protocol control within the reader and to move the smart card handling controls over to the PC.

With this new approach, the Reflex 72 can keep up with or even be ahead of the competition when it comes to offering services for new cards, standards and new protocols.

Experience and Knowledge

Schlumberger has been in the Smart Card business for many years. We have been putting Smart Card readers in Parking Meters, Payphone and even been designing and building smart card payment terminals. All these experiences have been grouped together to build the Reflex 72, the new generation of readers that will allow you to provide services to customers around the world.