

GemEasyLink/Access

3xx

User's Guide

Version 1.0

February 2002

Regulatory Information

Notice for the USA: FCC Statement

Federal Communications Commission (FCC) Radio Frequency Interference Statement (USA Only)

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protections against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try one of more of the following measures:

- Relocate the radio or television antenna.
- Plug the equipment away from the radio or television.
- Plug the equipment into a different electrical outlet, so that the equipment and the radio or television are on separate electrical circuits.
- Make sure that all your peripheral devices are also FCC Class B certified.
- Make sure you use only shielded cables to connect peripheral devices to your equipment.
- Consult your equipment dealer, or an experienced radio / television technician for help.

WARNING: The system verification tests were conducted with GEMPLUS supported peripheral devices and GEMPLUS shielded cables, such as those you received with your system. Cables used with this equipment must be properly shielded to comply with the requirements of the FCC.

Changes or modifications not expressly approved by GEMPLUS could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions :

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

GEMEASYLENK/ACCESS3XX USER'S GUIDE

General overview

The GemEasyLink/Access3xx device is a contactless proximity card reader combining both the reader and the antenna in one small package. Its main application is access control.

The unit utilizes the MIFARE® technology as part of its integrated solution.

The device also provides both audio and visual feedback with an internal beeper and LED indicators.

The GemEasyLink/Access3xx device is available in a rugged IP65 rated enclosure for direct mounting (GemEasyAccess3xx) or as an OEM version (GemEasyLink3xx) for packaging in a user supplied environment.

The main features of the GemEasyLink/Access3xx device are:

- Versatile package with easy connection allowing the card reader to be included in equipment mounted indoors or outdoors and on a variety of surfaces,
- Front mounted multicolor LED and beeper indicate status and error information,
- Standard input / output.

This user's guide includes information on the operation of GemEasyLink/Access3xx device.

A typical application is depicted in figure 1:

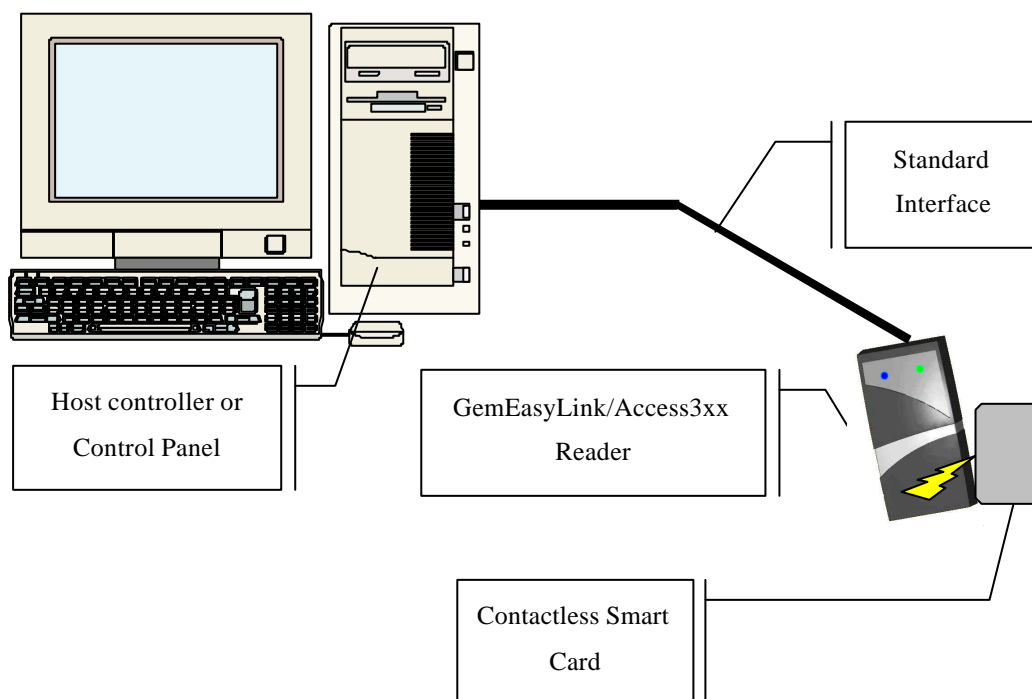


Figure 1: GemEasyLink/Access3xx typical application

GemEasyAccess3xx Overview

The packaged device is composed of a small package including a reader and an antenna:

Front side: A blue LED indicator and a bicolor LED indicator,

Rear side: User cable for connection and adhesive fixing.

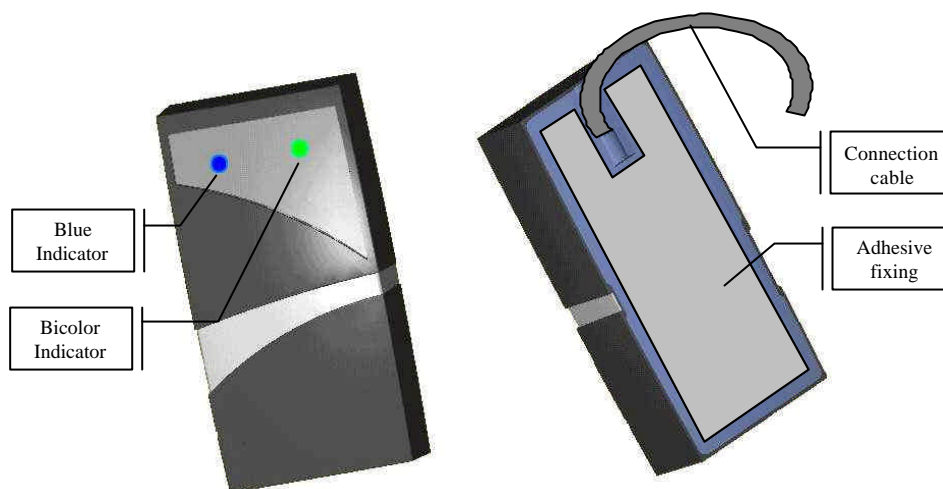


Figure 2: GemEasyAccess3xx Mounting and Indicator Reference

The cable is dedicated to the user connection.

The adhesive is used to fix the device to a wall.

The blue indicator is related to device activity.

The bicolor indicator is related to access control activity.

An internal beeper is used as audio indicator.

GemEasyLink3xx Overview

The OEM device is composed of two assembled boards (Antenna & Reader) with the following user indicators and connectors:

Top side	A blue indicator and a bicolor indicator,
Bottom side	Four groups of terminal block connectors.

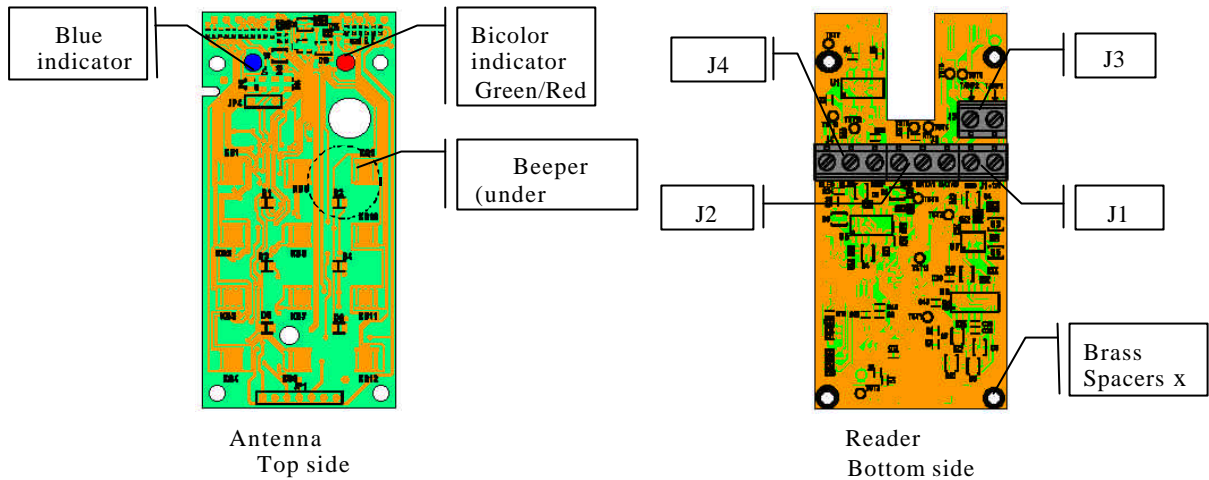


Figure 3: GemEasyLink3xx User Interface Component Locations

The terminal blocks are dedicated to user connections.

The blue indicator is related to device activity.

The bicolor indicator is related to access control activity.

The internal beeper is used as audio indicator.

Product features

The GemEasyLink/Access3xx device offers the following features:

- Up to date architecture,
- The ability to communicate with any type of ISO14443A contactless smart card,
- The ability to transmit smart card secured information,
- Standard +12 V operation,
- A friendly user interface with three LEDs and a beeper,
- Built-in tamper switch.

Technical Specifications

The GemEasyLink/Access3xx device provides and requires the following conditions for optimal operation.

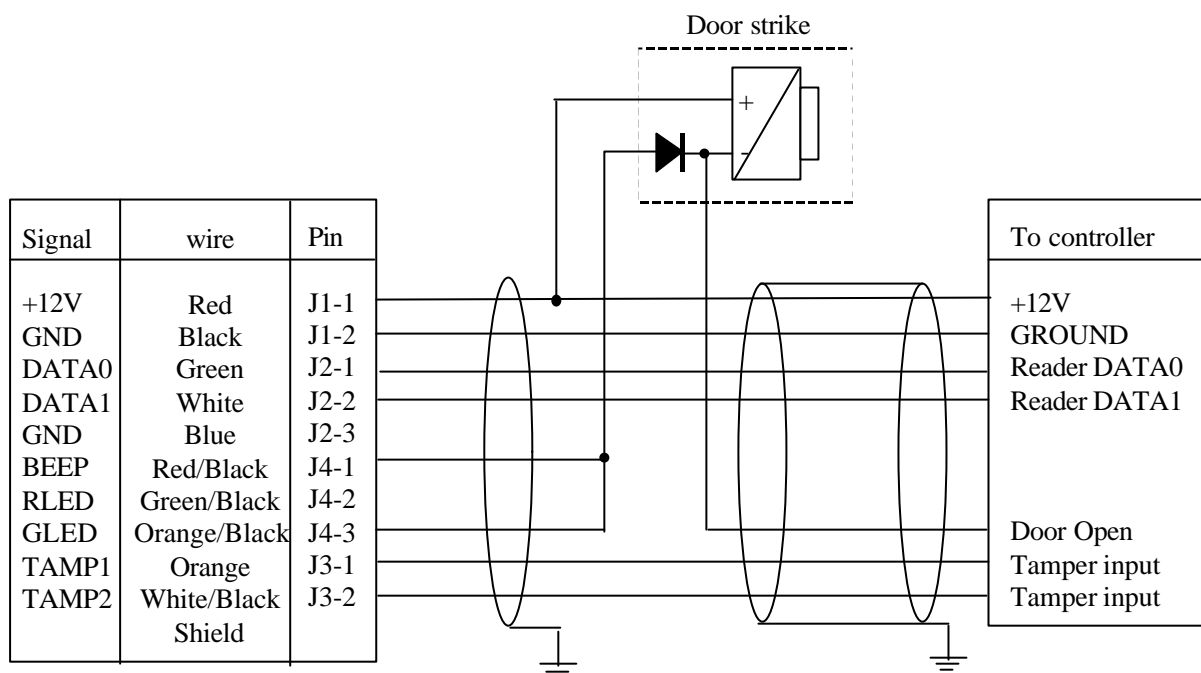
Operating Temperature range	-20°C to +70°C (-4°F to 158°F)
Humidity Range	0% to 95% non condensing
Index of protection	IP00 (open case reader) / IP65 (packaged reader)
Physical dimensions	82 mm (Height) x 40 mm (Width) x 22 mm (Deep) for open case reader 88 mm (Height) x 46 mm (Width) x 19 mm (Deep) for packaged reader
Cable	AWG24 wire
Power Supply Voltage	+12 V (+8 V to +13 V)
Power Supply Current	< 150 mA for +12 V power supply voltage.

Table 1: GemEasyLink/Access3xx Technical Specifications

Wiring diagram

An example of wiring diagram is depicted in Figure 4:

In this example, when the door is required to open, the green indicator and the beeper are activated.



ⓘ WARNING ⓘ

Connect the cable shield to earth
Add Ferrite

WURTH reference 742 712 22 or 742 7007
on the cable at 45 cm from the device

Figure 4: Example Wiring Diagram