



# Bluelon BlueAccess BAL-100-BL



**BlueAccess BAL-100-BL** is a new type of wireless access control system which is capable of opening "new doors" for a comfortable access controlled environment where user friendliness, reliability and design have been put in focus.

Use for instance your Bluetooth™ mobile phone or PDA to gain access through door's or gate's systems where your Bluetooth™ ID is accepted. Control for example simultaneously the parking lot light system or access-path lights via the build-in LonWorks® technology. You may either get instant access, without further verification, or be requested to authenticate your-self with a predetermined pin code depending on your personal or corporate security requirements. Pin code verification happens wirelessly via virtually any Bluetooth™ capable device through the use of its display and keypad. The Bluetooth™ wireless technology operates locally and is therefore free to be used without having to pay any additional charges to the user from the mobile service provider.

**BlueAccess BAL-100-BL** is designed to seamlessly integrate with the latest version of the iTooth Server Access Control System and combines both a controller and access module into

a single compact form factor which takes full advantage of the previously "untapped" access control, and identification media potential, which virtually any Bluetooth™ device provides, such as mobile phones, PDA's, Bluelon tags and similar devices.

**BlueAccess BAL-100-BL** is enabled with a LonWorks® interface and is therefore often employed in buildings with intelligent building installations (IBI).

**BlueAccess BAL-100-BL** is typically installed in a location inside the secured area where is it normally not visible to the user. No exit button or outdoor card reader is required as for legacy access control systems, which often fails due to physical exposure to weather and vandalism.

**BlueAccess BAL-100-BL** may be powered by a battery equipped power supply where continuous operation is required during power disruptions. A traditional wall adapter may alternatively supply the BlueAccess BAL-100-BL, for rapid low cost installation.

**BlueAccess BAL-100-BL** identifies Bluetooth™ devices by the unique 15-digit Bluetooth™ identifier and may additionally be authenticated by the use of associated pin code for maximum security. The communication

#### Wireless Access Control:

- Bluetooth™ based technology
- Fast response time
- No additional software needed on remote Bluetooth target device
- Remotely configurable power range
- Supports per user RSSI offsets
- Aux. for door-lock & alarm
- Supports Bluetooth authentication

#### Remotely Configurable:

- Access hysteresis
- Device name
- I/O timing

#### Installation/maintenance:

- Compact and discrete design
- No external card reader needed
- No mechanical reader needed
- Integration with LonWorks®
- Remotely upgradeable firmware
- Support LonWorks authentication

between controller and the Bluetooth™ device is encrypted to provide a private and safe exchange of data.

A Bluetooth™ device, accepted by the system, will be capable of activating the door from a distant form 0,5 meters (2 feet) up to 50 meters (165 feet), and the user will be able to pass through the door or gate without any further action. In case authentication is required the user will be prompted for such on the Bluetooth™ enabled device.

**BlueAccess BAL-100-BL** operating range can be adjusted and directional controlled by choice of directional antenna, and can thereby be used in applications where multiple doors exist in a confined area and all are controlled by BlueAccess controllers.

**BlueAccess BAL-100-BL** provides 2 isolated output relays that are normally used for door lock / gate actuator and external alarm system when door/gate is forced open or held open after defined timeout.

The **BlueAccess BAL-100-BL** device firmware and application image can easily be remotely upgraded, by a click of a button, from the managing server, as new, improved and more capable firmware becomes available.

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## Technical specification:

### Wireless Range:

0,5 - 50 Meter

### Inputs:

D1: Exit button - Open Collector, reference to OV

D2: Door contact - Open Collector, reference to OV

### Outputs:

Aux 1: Door/Gate Output Max 1 Amp. / 24 Volt

Aux 2: Tamper Alarm Output Max 1 Amp. / 24 Volt

D3: Wiegand Data - Open Collector, reference to OV

D4: Wiegand Data + Open Collector, reference to OV

### Dimensions:

H=130 mm,  
W=65 mm,  
D=20 mm

### Supply voltage:

10 - 30 Volt DC  
8 - 24 Volt AC

### Power consumption:

v/ 12 Volt: 120 mA  
v/ 24 Volt 60 mA

### LonWorks®

Channel type:  
FTT-10

### SNVT's:

1. SNVT Switch
2. SNVT String Ascii
1. SNVT\_ent\_state
1. SNVT\_ent\_status

### Supported objects:

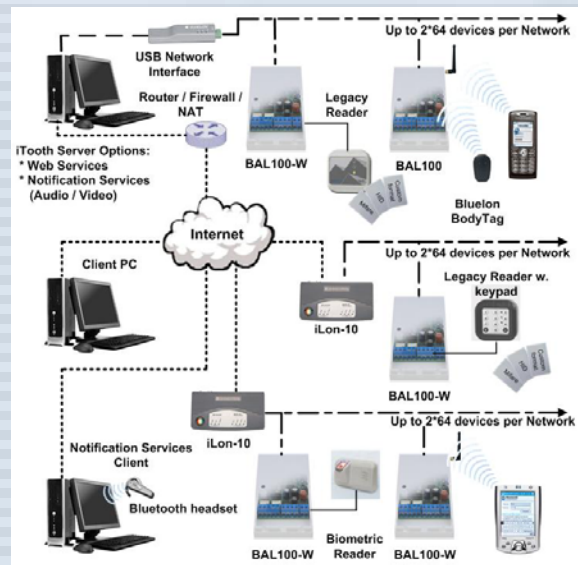
EntryExit object

## Available Bluetooth™ devices

Virtually all Bluetooth™ devices can be used with the BlueAccess access control system. Only a few devices has been found not to meet the Bluetooth™ standard set forth by the Bluetooth™ special interest group found at [www.bluetooth.org](http://www.bluetooth.org).

Please see [www.bluelon.com](http://www.bluelon.com) for up to date list of non-compliant devices.

## iTooth networks architecture



### Bluetooth™ facts:

Bluetooth™ is developed by Ericsson and is a short-range (up to 100 m.) wireless communications standard. Bluetooth™ is designed to communicate with devices such as mobile phones, PDA's, headsets, laptops. The Bluetooth Special Interest Group (SIG) has announced that the Bluetooth market has passed the impressive milestone of 9.5 million Bluetooth units shipping per week. In May 2005, the shipment figures were 4.75 million per week according to IMS Research and in September 2005 - only four months later - this figure had doubled, exceeding even the most optimistic analyst projections.

### LonWorks® facts:

Since 1988 LonWorks® have been implemented in more than 50 millions components and is worldwide installed into buildings, fabrication equipment, trains, private homes, airplanes. LonWorks® enables these components to communicate with each other on a local bus or even by the Internet and is today, the leading de facto worldwide, cross-industry standard for networking everyday devices.

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## Bluelon

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