



# EVOLUTION ACCESS CONTROL

## ACCESS CONTROL SOFTWARE

Evolution provides a complete and integrated access control software solution that efficiently captures, monitors, and controls access rights. NSI Gold accredited, our installed systems help safeguard, monitor and optimise operations and is designed to fit companies of all sizes.

Clear, intuitive, and easy to use makes for efficient administration, with users able to manage the system remotely from any networked PC. Whether you are looking to designate complex staff access rights that match working patterns, or simply provide temporary access to visitors requiring the use of the car park, all this can be achieved with minimum time, cost, and effort.

From controlling one door to managing multi-site operations, Evolution integrates seamlessly with a wide range of the latest cutting-edge security hardware including door systems, car park barriers, gates and turnstiles from leading manufacturers such as **'ievo'**, **SALTO**, **Abloy** and **FAAC**.

Perfect for companies that are looking for a fully integrated system, TouchStar's dynamic interfacing tool **"EvoLink"**, works in conjunction with Evolution to support even more flexible, advanced, and futureproof access control. EvoLink can link front end software to almost any other system, from HR and Payroll through to cashless vending and other third-party systems where the same personal data is required, EvoLink provides a tailored solution, automating the transfer of access control related data to streamline operational processes, reducing associated costs and errors.

### EVOLUTION SOFTWARE

- .NET Architecture
- Web services
- Client/Server design
- Microsoft SQL database

### FEATURES

- Badge production
- Badge design and print
- Visitor Management
- User Management
- Facilities Management
- Personnel Management
- Image capture and authentication
- Real Time Monitoring

### EVOLUTION/EVOLINK COMPATIBLE INTEGRATIONS

- SALTO Access Control System
- Ievo Biometric Readers
- Third Party Hardware and Software Systems
- Fire and Intruder Alarm Systems
- Cashless Vending Systems
- Core HR/Payroll Databases

## Technical Specification

### Controller

#### TEMPERATURE RANGE:

0 – 40°C

#### COMMUNICATION:

10/100/1000 base Ethernet TCP/IP.

Optional: 2.4GHz or 5GHz WiFi.

Optional: Bluetooth for diagnostic purposes.

#### OPERATING POWER REQUIREMENT:

IP 100-240V AC 3.0/1.5A Max.

OP PSU 13.8VDC 7.5A 103W.

IP PCB 10-15VDC 7.5A Max.

OP PCB +5VDC selection 3A Total.

OP PCB +10-15VDC selection 7A Total.

OP PCB current limited.

#### MAXIMUM CARDS:

Evolution V3 door controller hardware,  
all card ID lengths of 10 with PIN > 100,000.

#### CARD TYPES:

Proximity including but not limited to;

HID including iClass, Mifare including DESFire.

Magnetic strip and BarCode.

Custom decodes possible on request.

#### READERS / DOORS:

2 x Reader inputs / Door controls in dual mode.

4 x Reader inputs / Door controls in quad mode.

Current limited voltage supplies selectable +5V or  
10-15V for every 2 inputs/outputs.

Reader interface supports Wiegand, Clock/Data,  
Wand Barcode as well as PIN pad support.

#### INPUTS:

8 x optically isolated @ < 20mA,

Extra input expansion possible on request.

#### OUTPUTS:

8 x semiconductor 30V 500mA,

Extra output expansion possible on request.

#### CONTROL:

4 x volt-free relay 2A @ 30V.

#### TAMPER DETECTION:

Case removal switch and optical sensor.

### Software

#### SYSTEM REQUIREMENTS:

The application is designed for either stand-alone  
operation or have a Client / Server architecture.

#### EVOLUTION STAND-ALONE:

**Minimum:** Windows Server, SQL Server service pack 3.

**Recommended:** Windows Server, SQL Server 2019  
standard, SQL Management studio.

#### EVOLUTION CLIENT:

**Minimum:** Windows 10 Pro 64bit.

#### COMPUTER REQUIREMENTS:

##### SERVER:

**Minimum Hardware:** Dual Core Xeon, 16GB RAM,  
100GB Storage, SVGA display (1024 x 768 minimum).

**Minimum Software:** Windows Server 2016,  
Windows SQL 2016 Express, SQL Management Studio  
16, Licence: Lite.

**Recommended Hardware:** Quad Core Xeon,  
64GB RAM, 500GB Storage, Display greater than  
minimum specification.

**Recommended Software:** Windows Server 2022,  
Windows SQL 2022 Full licence, SQL Management  
Studio 20, Licence: Customer specific.

**Database integration (EvoLink):** Designed to  
customer specific requirement.

##### CLIENT:

**Minimum Hardware:** Windows 10 business  
specification including SSD storage.

**Minimum Software:** Windows 10 Pro 64bit.

**Recommended Hardware:** Windows 11 business  
specification including SSD storage.

**Recommended Software:** Windows 11 Pro 64bit.

## Contact



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# touchstar



Securing the Logistics of People and Product