# BIOsingle NG

## The Faster Biometric + Card Reader, with 32 Bit Processor



BIOsingle NG, the Biometric + Card Reader from smart-i, is very fast and efficient in all processing and communication functions, faster than any other Biometric + Card reader in its category, making it an ideal option for any organization with a fairly large or very large number of employees.

## KEY BENEFITS

- **The Processor:–** Its 32 bit processor makes BIOsingle NG a much faster and more efficient biometric reader in all its functions than any other in its category and, along with the following advantages, much more cost effective too.

- **On board TCP/IP:** - TCP/IP communication used for uploading/downloading Fingerprint templates from device with the Template management Software. It's also useful for easier fingerprint template multicast distribution.

- **Tamper Detection:-** It detects tampering, if any, and sends an alert to Access Control panel for suitable response.

- **Accuracy in Finger Verification:-** The Suprema Sensor employed in BIOsingle NG ranks among the best in the world for accuracy in verification, validated by FVC award-winning algorithm.

- **Auto Fingerprint Update:-** It also automatically recognizes any minor natural changes in the fingerprint over a period of time and automatically updates them for future reference.

Many highly prestigious organizations from many sectors such as Banking, Pharma, IT, Mega Retail, Government etc. have been using various Access Control, Time and Attendance and Security related systems of smart-i in many of their establishments all over India, for many years.

## Key Highlights

**Support Standard Wiegand Communication:-** Compatible with any standard Access Control Panel on standard wiegand communication

**Elegant Look: -** An aesthetic and elegant design with compact size is a value addition to the interior of the premises.
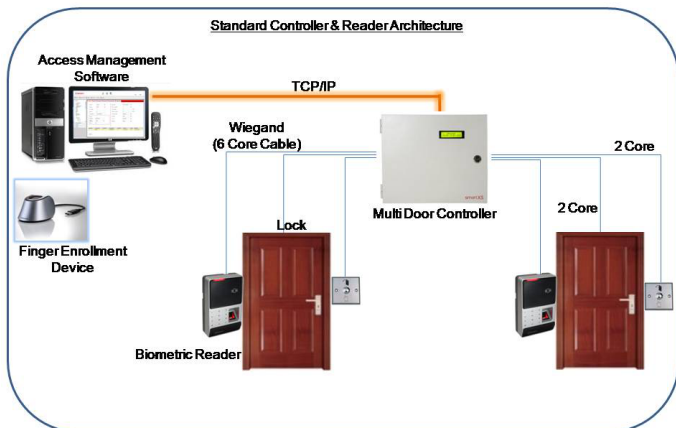
**Tricolor LED & Buzzer: -** Device has tricolor LED & Buzzer for better user interaction about user authentication

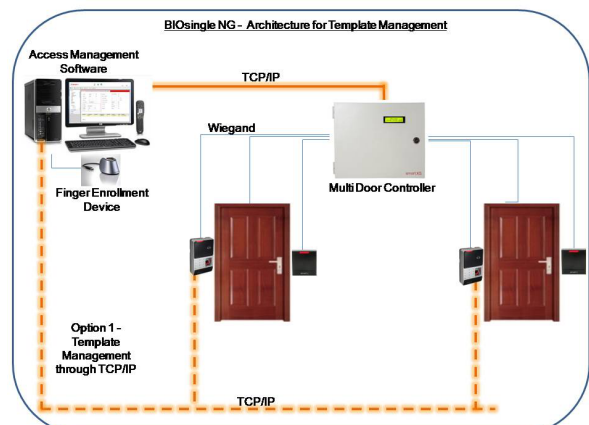**Easy Remote Online Firmware Upgradation: -** Device has inbuilt capability for online firmware up gradation.

## Technical Specification

| Particulars | Specifications |
|---|---|
| **Model No** | **SBSNG1950 Series** |
| Applications | Access Control System |
| **Technical Specifications** | |
| CPU | 32 Bit RISC ARM Processor |
| Memory | Upto 8 MB Flash |
| No. Template | 19000 (1:N) / (1:1) |
| Operation Modes | Finger only & Card+ Finger |
| Sensor | High Quality Scratch Resistance Optical Sensor |
| Card Reader Options (Extra Module) | Mifare®; HID (I Class), HID Prox, EM cards |
| Communications Port | TCP/IP, Wiegand, RS485 |
| Baud Rate | 9600bps (Default) |
| LED | Tricolor LED Bar |
| Power Supply | 12 V DC/ 2A (Min) |
| Enclosure | ABS Plastic |
| Color / Weight | Silver & Black |
| Dimension(mm) | 167 (H) x 105 (W) x 45 (D) |
| Mounting | Wall Mounting |
| Temperature | 0°C to 50°C |
| Humidity | |
| **Sensor Specifications** | |
| Type | Optical |
| Image Resolution | 500 dpi |
| Enrollment Time | <1 sec |
| Verification Time | <1 sec |
| Authentication/Identification | 1:1 & 1:N (User Groups facility for faster verification) |
| Identification Time (1:1000) | 1 sec |
| Template Size | 384 bytes |
| EER | <0.1% |
| FAR | 0.001% |
| FRR | 0.1% |
| Image Size (pixels) | 272 x 320 |
| Sensing Area (mm) | |
| **Ordering Information** | |

| Model No | No of Template | Type | Inbuilt Card Reader |
|---|---|---|---|
| SBSNG1950 | Upto 19000 | Only Finger | P - EM Proximity |
| SBSNG1950-P/S/HI/HP | (1:N) / (1:1) | | S - Mifare |
| | | | HI - HID iCLASS |
| | | | HP - HID Proximity |

### Application Diagram – Access Control System (As a Reader)



Standard Controller & Reader Architecture

Access Management Software
TCP/IP
Wiegand (6 Core Cable)
2 Core
Multi Door Controller
2 Core
Lock
Finger Enrollment Device
Biometric Reader

### BIOsingle NG Template Management Diagram



BIOsingle NG – Architecture for Template Management

Access Management Software
TCP/IP
Wiegand
Multi Door Controller
Finger Enrollment Device
Option 1 – Template Management through TCP/IP
TCP/IP

* smart-i Policy is one of constant improvement. We reserve the rights to alter specifications without any prior notice.

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