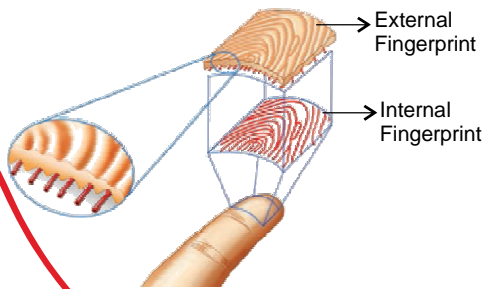


# BIOsingle NG *plus*

The even more reliable **Biometric + Card Reader** because it looks deeper at a finger for its prints, even at its inner layer

## Multispectral Technology



A state-of-the-art biometric + card Reader, **BIOsingle NG *plus***, looks deeper at the finger for its prints. Equipped with a globally acclaimed Multi Spectral sensor it looks at both, the outer as well as the inner layers of the finger and therefore works effectively with almost every type of finger condition. It is thus the most efficient, effective and reliable Biometric Reader for a wide range of industries.

**BIOsingle NG *plus***, has several Pluses to offer:

### KEY BENEFITS

- **Multispectral Sensor:-** With the award winning, globally acclaimed and patented multispectral imaging system of Lumidigm, **BIOsingle NG *plus*** captures both, the image of the external fingerprint (the outer layer) as well as the internal fingerprint (the inner layer), even in high ambient light. So in the case of all finger conditions, such as Oily, Wet, Dirty, Elderly or Damaged fingers, where the external fingerprint is not clear or reliable, **BIOsingle NG *plus*** reads and identifies the internal fingerprint correctly.

It is thus a very reliable Biometric attendance device for various industrial sectors where the quality of the fingerprints is an issue for various reasons.

- **Tamper Detection:-** It detects tampering, if any, and sends an alert to the Access control panel for suitable response.
- **The Processor:-** Its 32 bit processor adds speed and an even greater efficiency to all that **BIOsingle NG *plus*** does as above.
- **SD Memory Card - Auto Backup:-** Automatic backups of fingerprints and device configuration within the device itself on SD Memory Card. It ensures that the critical data of the device is secured.

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

**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.

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

**Tricolor LED & Buzzer:** - Device has tricolor LED & Buzzer for better user interaction about user authentication.

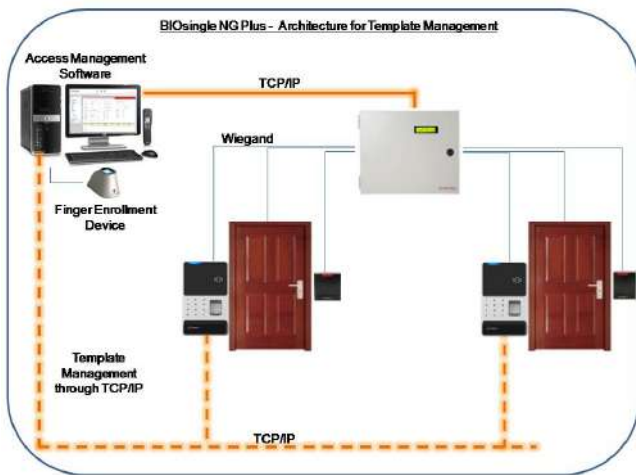
**Easy Remote Online Firmware Up-gradation:-** Device has inbuilt capability for online firmware up gradation.

**Compact and Elegant Look:** - An aesthetic and elegant design and capacitive touch sense keypad is a value addition to the interior of the premises.

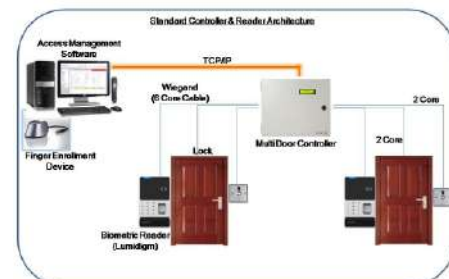
## Technical Specification

Particulars	Specifications			
<b>Model No</b>	<b>SBSNG1050-LM</b>			
<b>Applications</b>	Access Control Reader			
<b>Technical Specifications</b>				
<b>CPU</b>	32 Bit RISC ARM Processor			
<b>Memory</b>	Upto 8 MB Flash; Up to 4GB (SD Memory Card)			
<b>No. Template</b>	Up to 40,000 (1:1)			
<b>Operation Modes</b>	Card Only; Card + Finger; Finger Only			
<b>Sensor</b>	Multispectral Sensor			
<b>Inbuilt Card Reader Options</b>	Mifare®; EM cards, HID iCLASS, HID Prox			
<b>Communications Port</b>	TCP/IP, Wiegand, RS485			
<b>LED</b>	Tricolor LED Bar & Buzzer			
<b>Power Supply</b>	12 V DC/ 2A (Min)			
<b>Enclosure</b>	ABS Plastic			
<b>Color</b>	Silver & Black			
<b>Dimension(H x W x D) in mm</b>	167 x 105 x 45			
<b>Mounting</b>	Wall Mounting			
<b>Temperature</b>	0°C to 50°C			
<b>Humidity</b>	20% to 90%			
<b>Sensor Specifications</b>				
<b>Imaging System</b>				
Technology	Patent Lumidigm Optical Multi spectral imaging			
Image Resolution	500 dpi			
Image Bit Depth	8-bit, 256 grayscale			
Platen Area	17.4 x 13.9 mm (rectangular), uncoated			
<b>Biometric Functions</b>				
Image OUT	ANSI 381 Compliant			
Template OUT	ANSI 378 Compliant			
Score or Verification (1:1)	Requires ANSI 378 template INPUT			
Identification (1:N)	Uses ANSI 378 templates as INPUT			
Latent Protection	Included			
<b>Biometric Performance</b>				
Finger Placement to image	1.3 sec. (typical)			
Finger Placement to template/ Score	1.8 sec. (typical)			
<b>Standard Compliance</b>				
Interoperability	ANSI 378, ISO 19794-2:2005			
	ANSI 381, ISO 19794-4:2005			
	NFIQ Compliant			
	MINEX - Certified Algorithm			
Sensor Certifications	CE, FCC Part 15 Class B, EN 60950, IEC 62471, RoHS Certified Support for thin Clients			
<b>Ordering Information</b>				
<b>Model No</b>	<b>Application</b>	<b>No of Templates</b>	<b>Type</b>	<b>Inbuilt Reader</b>
SBSNG1050-LM-P/S/HI/HP	Readers	Upto 40000	Finger + Card	P - EM Proximity S - MiFARE HI - HID iCLASS HP - HID Proximity

### BIOsingle NG plus Template Management Diagram



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



\* smart-i Policy is one of constant improvement. We reserve the rights to alter specifications with out any prior notice.