

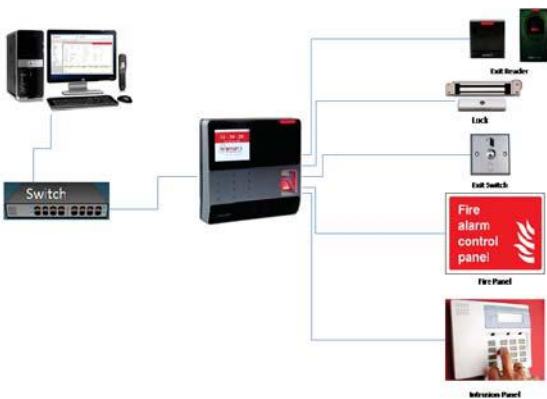
# BIOsmart NG

Next Generation Biometric & Card based Terminal



The new **BIOsmart NG** blends loads of innovative features to streamline installation and administration for small, medium or, large business enterprises for standalone door access control deployment. **BIOsmart NG** brings high speed, accuracy, flexibility and user friendly interactivity. It provides aesthetic GUI on easy-to-use touch screen LCD with touch sense keypad.

Application Diagram -  
Access Control System



Application Diagram -  
Time Attendance System



## Key Highlights

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

**Suprema Sensor for Auto Fingerprint Update:** - Smart I device automatically recognizes the minor natural changes in the fingerprint over a period of time and automatically updates them for future reference.

**Cost Effective Multi-Location Application - Through Dynamic IP:** - Ideal for single or multi-location application. The only requirement at each location is an internet connection. Static IP is required only at the central control location. It saves the need to make multiple investments in Static IP at multiple locations such as the innumerable branch locations.

**SD Memory Card:** - Keeps automatic backups of user's data, transactions and device configuration within the device itself on the SD Memory Card. It ensures that the critical data of the device is secure.

**Modular Reader for Card Upgradation:** - It gives the freedom to the users to upgrade their card reader technology without replacing the complete device.

**POE for Minimum Cabling:** - Power on Ethernet - where there is no need to have a separate power connection.

**Versatile Interfaces (TCP/IP, POE\*\*, Wiegand, RS485, Relay):** - The versatile Interface makes the devices technically very strong & user friendly. It gives the freedom to the end-user to use their existing infrastructure and go in for expansion in the future.

**Added Security for access to the Devices:** - Configurable card/finger verification has been provided for extra security, in addition to the usual login id and password, to access the Controller device.

**Data Security:** - The IP address of the authorized computer is mapped with that of the Controller, making the downloading of the data even more secure.

**Enhanced Security Features:** - Anti pass back, facility/establishment code, Time zone, Duress Alert for enhanced security.

**Event Alert based network protocol:** - The protocol implemented for value added features i.e. CCTV Integration to verify/identify Tailgating, for security audit.

**Voice Indication:** - Device has inbuilt provision for prerecorded audio instructions for every transaction.

**Remote and easy Online Up-gradation of the Firmware:** - The Device has an inbuilt capability for an online up gradation of the firmware.

**Elegant Look:** - The aesthetic and elegant design with 3.5" color graphical TFT is a value addition to the interior of the premises.

## Technical Specification

Particulars	Specifications			
<b>Model No</b>	<b>SBNG1930 Series</b>			
<b>Applications</b>	Access Control System & Time Attendance			
<b>Technical Specifications</b>				
<b>CPU</b>	32 Bit RISC ARM Processor			
<b>Memory</b>	4GB SD and 8 MB Flash			
<b>Events/Transactions</b>	Upto 1,00,000			
<b>Users</b>	Upto 19,000			
<b>No. Template</b>	19000 (1:N/1:1) {Expandable upto 3 Lakhs in 1:1}			
<b>Operation Modes</b>	Card Only; UID + Finger; Card + Finger; Finger Only; UID only (On Wiegand Card only, Finger only & Card + Finger)			
<b>Sensor</b>	High Quality Scratch Resistance Optical Sensor			
<b>Finger Score</b>	Display finger quality score at the time of finger registration			
<b>Card Reader Options (Extra Module)</b>	Mifare ; HID (I Class), HID Prox, EM Cards			
<b>Communications Port</b>	TCP/IP, POE**, Wiegand, RS485			
<b>Baud Rate</b>	9600bps (Default)			
<b>Controller ID</b>	Up to 10,000			
<b>Display</b>	3.5" TFT Touch Screen LCD			
<b>Keypad</b>	Capacitive Touch Sense Keypad			
<b>LED</b>	Bicolor LED Bar			
<b>Language</b>	English			
<b>Sound</b>	Various sound indication messages (English)			
<b>Power Supply</b>	12 V DC/ 2A (Min) , POE (Optional, only for T&A App.)			
<b>Enclosure</b>	ABS Plastic			
<b>Color / Weight</b>	Silver & Black			
<b>Dimension(mm)</b>	200 x 170 x 42			
<b>Mounting</b>	Wall Mounting			
<b>Temperature</b>	0°C to 50°C			
<b>Humidity</b>	20% to 90%			
<b>Sensor Specifications</b>				
<b>Type</b>	Optical			
<b>Image Resolution</b>	500 dpi			
<b>Enrollment Time</b>	<1 sec			
<b>Verification Time</b>	<1 sec			
<b>Authentication/Identification</b>	1:1 & 1:N (User Groups facility for faster verification)			
<b>Identification Time (1:1000)</b>	1 sec			
<b>Template Size</b>	384 bytes			
<b>EER / FAR / FRR</b>	<0.1% / 0.001% / 0.1%			
<b>Image Size (pixels)</b>	272 x 320			
<b>Sensing Area (mm)</b>	16 x 19			
<b>Access Control Feature</b>				
<b>Facility Code</b>	Available			
<b>Time Zone / Access Levels</b>	63 + 1 (Free Time Zone) / Unlimited			
<b>Time Zone Slots</b>	4 slots per Day			
<b>Anti-Passback</b>	Hard, Soft, Escort (Reader Wise)			
<b>Holiday Settings</b>	42			
<b>Ordering Information</b>				
<b>Model Nos</b>	Application	No of Template	Type	Inbuilt Card Reader
<b>SBNG1930</b>	Access & Attendance	Upto 19000	Finger (Only)	P - EM Proximity
<b>SBNG1930-POE</b>			Finger + Card	S - MiFare
<b>SBNG1930-P/S/Hi/HP</b>				HI - HID iCLASS
<b>Software</b>	<b>Application</b>	<b>Architecture</b>		
<b>SSA30-AS-Series</b>	Access (Only)	Desktop based Software		
<b>SSTA30-AS-Series</b>	Attendance (Only)	Desktop based Software		
<b>SCMD Pack Series</b>	Access + Attendance	Web Based Software		

# Optional for Projects \*\* Separate model number

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

**smart i** ELECTRONICS SYSTEMS PVT. LTD.  
 For more information call +91-22-6566 6555 or  
 Email us @ enquiry@smartsystems.com  
 www.smartsystems.com