**SUPREMA ACCESS CONTROL DEVICE - BioEntry Plus**

**TECHNICAL SPECIFICATIONS**

2017-06-05

# PART 1 - GENERAL

The intent of this document is to specify the minimum criteria for the design, supply, installation, and commissioning of the BioEntry Plus.

* 1. SUMMARY

1. Section includes a biometric reader and door controller with Ethernet network connectivity.
2. Product - An IP enabled biometric reader and door controller, capable of scanning and registering cards, managing users and controlling access.
   1. REFERENCE
3. Standards
4. IEEE 802.3 Ethernet Standards
5. FCC - Code of Federal Regulations, Title 47, Part 15, Class B
   1. SUBMITTALS
   2. QUALIFICATIONS
6. Manufacturer shall be ISO 9001 certified with a minimum of five years’ experience in producing access control equipment.
7. Installers shall be trained by the Manufacturer to install, configure and commission the access control system.
   1. WARRANTY
8. Manufacturer shall provide a limited ( ) month warranty for the product to be free of defect in material and workmanship.

END OF SECTION

# PART 2 - PRODUCTS

1. EQUIPMENT
2. Manufacturer   
   Suprema Inc.   
   17F Parkview Office Tower, Jeongja, Bundang, Seongnam, Gyeonggi, 463-863, Republic of Korea  
   Tel: 82-31-783-4502, Fax: 82-31-783-4503, [www.supremainc.com](http://www.supremainc.com)  
   [support@supremainc.com](mailto:support@supremainc.com)
3. Model(s): BioEntry Plus
4. Alternates: NONE
5. DESCRIPTION
6. The biometric reader and door controller (“reader/controller”) shall be an IP-enabled device capable of scanning fingerprints and RFID cards, managing users and controlling access.
7. FEATURES
8. NIST MINEX compliant
9. 1:2,000 matched in 1 second
10. TCP/IP, RS-485, Wiegand, Relay interface
11. Built-in card reader (125KHz EM/HID Prox, 13.56MHz MIFARE/DESFire/iCLASS)
12. SPECIFICATIONS

|  |  |  |
| --- | --- | --- |
| General | Biometric | Fingerprint |
| RF Option | **BEPL-OC**: 125kHz EM |
| **BEPM-OC**: 13.56MHz MIFARE, MIFARE Plus, DESFire/EV1 (CSN) |
| **BEPH-OC**: 125kHz HID Prox |
| **BEPI-OC**: 13.56MHz FeliCa, iCLASS SR |
| **BEPI(FE)-OC**: FeliCa |
| Multi-Controller | Yes |
| Certificates | CE, FCC, KC, RoHS |
| Capacity | Max. User (1:1) | 5,000 |
| Max. User (1:N) | 5,000 |
| Max. Template (1:1) | 10,000 (Two templates per finger) |
| Max. Template (1:N) | 10,000 (Two templates per finger) |
| Max. Text Log | 50,000 |
| Interface | TCP/IP | Yes |
| RS-485 | 1ch Host or 1ch Slave (Selectable) |
| Wiegand | 1ch In or 1ch Out (Selectable) |
| Input | 2 Inputs |
| Relay | 1 Relay |
| Mechanical | CPU | 533MHz DSP |
| Memory | 8MB RAM + 8MB Flash |
| LED Indicator | Multi-Color |
| Sound | Multi-tone Buzzer |
| Operating Temp. | -20° to 50°C |
| Tamper | Yes |
| Dimensions | 50 x 160 x 37 (WxHxD mm) |
| Electrical | Power | Min. 10.8 VDC  Typ. 12 VDC  Max. 13.2 VDC |
| Consumption | Max. 300 mA |
| Switch Input VIH | Min. 2.0 V  Max. 10.0 V |
| Switch Input VIL | Max. 0.4 V |
| Switch Pull-up Resistor | 4.7 kΩ (The input ports are pulled up with 4.7kΩ resistors.) |
| Relay | Form C Relay  Voltage: Max. 24 VDC  Current: Typ. 0.5 A, Max. 1 A |
| Platform | BioStar 2 | Supported |
| BioStar 1 | Supported |

END OF SECTION

# PART 3 - EXECUTION

1. INSTALLER
2. Contractor personnel shall comply with all applicable state and local licensing requirements.
3. PREPARATION
4. Contractor shall avoid locating the reader/controller in a location subject to direct sunlight, dust or soot.
5. IP addressing shall be coordinated with the Owner’s responsible IT personnel.
6. STORAGE
7. The system shall be stored in an environment where temperature is in the range of -4 - 122°F (-20 - +50°C).
8. INSTALLATION
9. All wires shall be run through conduit to prevent failure caused by rodent damage.
10. Connections between card readers and a door controller shall not exceed 100 meters.
11. All peripheral devices shall be grounded.
12. EXAMINATION
13. All network connections to the reader/controller shall be tested for proper levels of performance.

END OF SECTION