**SUPREMA ACCESS CONTROL DEVICE - Xpass**

**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 Xpass.

* 1. SUMMARY

1. Section includes a RF reader and door controller with Ethernet network connectivity.
2. Product - An IP enabled RF 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
6. ANSI / IEC60529 – Degrees of Protection Provided by Enclosures
7. International Electrotechnical Commission (IEC) – Ingress Protection Rating IP65
   1. SUBMITTALS
   2. QUALIFICATIONS
8. Manufacturer shall be ISO 9001 certified with a minimum of five years’ experience in producing access control equipment.
9. Installers shall be trained by the Manufacturer to install, configure and commission the access control system.
   1. WARRANTY
10. 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): Xpass
4. Alternates: NONE
5. DESCRIPTION
6. The RF reader and door controller (“reader/controller”) shall be an IP-enabled device capable of scanning RFID cards, managing users and controlling access.
7. FEATURES
8. Sleek and aesthetic design
9. 11.4 mm super slim design
10. Supports up to 40,000 users
11. IP65, Dust & Water Proof
12. PoE, TCP/IP, RS-485, Wiegand, Relay interface
13. Multi smartcard reading (125KHz EM, HID Prox, 13.56MHz MIFARE, DESFire/EV1)
14. SPECIFICATIONS

|  |  |  |
| --- | --- | --- |
| General | IP Rating | IP65 |
| RF Option | **XPE-PoE**: 125kHz EM |
| **XPM-PoE**: 13.56MHz MIFARE, DESFire/EV1 (CSN) |
| **XPH-PoE**: 125kHz HID Prox |
| Multi-Controller | RF only |
| Certificates | CE, FCC, KC, RoHS |
| Capacity | Max. User (1:1) | 40,000 |
| Max. User (1:N) | 40,000 |
| Max. Text Log | 50,000 |
| Interface | TCP/IP | Yes |
| RS-485 | 1ch |
| Wiegand | 1ch In or 1ch Out (Selectable) |
| Input | 2 Inputs |
| Relay | 1 Relay |
| Mechanical | CPU | 533MHz DSP |
| Memory | 16MB RAM + 8MB Flash |
| LED Indicator | Multi-Color |
| Sound | Multi-tone Buzzer |
| Operating Temp. | -20° to 50°C |
| Tamper | Yes |
| PoE | Optional |
| Dimensions | 45 x 130 x 27 (WxHxD mm) |
| Electrical | Power | Min. 10.8 VDC  Typ. 12 VDC  Max. 13.2 VDC |
| Consumption | Max. 220 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.) |
| TTL/Wiegand Output VOH | 5 V |
| TTL/Wiegand Output VOL | 0.8 V |
| TTL/Wiegand Output Pull-up Resistor | 4.7 kΩ (The outputs ports are open drain type, pulled up with 4.7 kΩ resistors internally.) |
| 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 -68 - +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