**SUPREMA ACCESS CONTROL DEVICE - XPass S2**

**TECHNICAL SPECIFICATIONS**

2024-02-22

# PART 1 - GENERAL

The intent of this document is to specify the minimum criteria for the design, supply, installation, and commissioning of the XPass S2.

* 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. Conformity for Europe (CE)
6. UK Conformity Assessed (UKCA)
7. Korea Certification (KC)
8. FCC - Code of Federal Regulations, Title 47, Part 15, Class B
9. Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) - (EC No. 1907/2006)
10. The Waste Electrical and Electronic Equipment (WEEE) - Directive 2012/19/EU
11. ANSI / IEC60529 – Degrees of Protection Provided by Enclosures
12. International Electrotechnical Commission (IEC) – Ingress Protection Rating IP65
    1. SUBMITTALS
    2. QUALIFICATIONS
13. Manufacturer shall be ISO 9001 certified with a minimum of five years’ experience in producing access control equipment.
14. Installers shall be trained by the Manufacturer to install, configure, and commission the access control system.
    1. WARRANTY
15. 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, 248, Jeongjail-ro, Seongnam-si, Gyeonggi-do, 13554, Republic of Korea  
   Tel: 82-31-783-4502, Fax: 82-31-783-4503, <https://www.supremainc.com>  
   <https://support.supremainc.com>
3. Model(s) name: XPass S2

Part Number: XPS2

1. Alternates: NONE
2. DESCRIPTION
3. The RF reader and door controller (“reader/controller”) shall be an IP-enabled device capable of scanning RFID cards, managing users and controlling access.
4. FEATURES
5. 11.4 mm super slim design
6. Supports up to 50,000 users and 100,000 logs
7. IP65 certified
8. Operates between -35 °C to 65 °C
9. TCP/IP, RS-485, Wiegand, TTL Input, Relay interface
10. Multi smartcard reading (13.56MHz MIFARE, MIFARE Plus, DESFire/EV1, FeliCa)
11. SPECIFICATIONS

|  |  |  |
| --- | --- | --- |
| **Category** | **Feature** | **Specification** |
| Credentials | RF Card | **XPS2M**: 13.56MHz MIFARE, MIFARE Plus, DESFire/EV1 (CSN), FeliCa, ISO14443A, ISO15693 |
| RF Read Range**1)** | MIFARE/DESFire: 50 mm, FeliCa: 30 mm |
| Multi-Controller | Supported |
| General | CPU | 533 MHz DSP |
| Memory | 16 MB RAM + 16 MB Flash |
| LED | Multi-Color |
| Sound | Multi-tone Buzzer |
| Operating Temp. | -35 °C ~ 65 °C |
| Dimensions (W x H x D) | 80 x 120 x 11.4 (mm) |
| IP Rating | IP65 |
| Certification | CE, UKCA, KC, FCC, BIS, RoHS, REACH, WEEE |
| Capacity | Max. User (1:1) | 50,000 |
| Max. User (1:N) | 50,000 |
| Max. Text Log | 100,000 |
| Interface | TCP/IP | Supported |
| RS-485 | 1 ch Master / Slave (Selectable) |
| RS-485 Communication Protocol | OSDP V2 compliant |
| Wiegand | 1 ch Input / Output (Selectable) |
| TTL Input | 2 ch |
| Relay | 1 Relay   * Voltage: Max. 24 Vdc * Current: Typ. 0.5 A, Max. 1.0 A |
| Tamper | Supported |
| Electrical | Power | * Voltage: 12 Vdc * Current: Max. 0.4 A |
| Platform | BioStar 1 | Supported |
| BioStar 2 | Supported |

1) RF read range will vary depending on installation environment.

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. INSTALLATION
7. The device shall be stored in an environment where temperature is in the range of -35 °C ~ 65 °C.
8. All wires shall be run through conduit to prevent failure caused by rodent damage.
9. Connections between card readers and a door controller shall not exceed 100 meters.
10. All peripheral devices shall be grounded.
11. EXAMINATION
12. All network connections to the reader/controller shall be tested for proper levels of performance.

END OF SECTION