**SUPREMA OUTDOOR COMPACT RFID READER – XPass D2(XPD2-GKDB)**

**TECHNICAL SPECIFICATIONS**

2021-06-29

# PART 1 - GENERAL

The intent of this document is to specify the minimum criteria for the design, supply, installation, and commissioning of the XPass D2(XPD2-GKDB).

* 1. SUMMARY
1. An OSDP enabled RF reader, capable of scanning and registering RFID cards.
	1. REFERENCE
2. Standards
3. FCC - Code of Federal Regulations, Title 47, Part 15, Class B
4. ANSI / IEC60529 – Degrees of Protection Provided by Enclosures
5. International Electrotechnical Commission (IEC) – Ingress Protection Rating IP65
6. International Electrotechnical Commission (IEC) – Ingress Protection Rating IP67
7. IEC 62262 - Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts IK08
	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
3. Model(s): XPass D2 (XPD2-GKDB)
4. Alternates: NONE
5. DESCRIPTION
6. The RF reader which is an RS-485(OSDP) enabled device capable of scanning RFID cards and mobile cards.
7. Provides a numeric keypad for inputting a PIN or Weigand card ID.
8. FEATURES
9. Multi-RFID card reading
10. Mobile card support (NFC, BLE)
11. IP65, IP67, Dust & Waterproof
12. IK08, Vandal proof
13. Gangbox type design with a numeric keypad
14. RS-485, Wiegand, Tamper
15. OSDP V2 Compliant
16. SPECIFICATIONS

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| **Category** | **Feature** | **Specification** |
| **XPD2-GKDB** |
| Credential | LF card option | EM |
| HF card option | MIFARE, MIFARE Plus, DESFire/EV1, FeliCa |
| NFC card | Supported |
| BLE card | Supported |
| RF read range\* | MIFARE/DESFire/EM : 50 mm, FeliCa: 30 mm*\* RF read range will vary depending on the installation environment.* |
| General | CPU | 80 MHz |
| Memory | 256 KB Flash + 64 KB RAM |
| LED | Multi-color |
| Sound | Multi-tone Buzzer |
| Operating temperature | -35°C ~ 65°C |
| Storage temperature | -40°C ~ 70°C |
| Operating humidity | 0% ~ 95%, non-condensing |
| Storage humidity | 0% ~ 95%, non-condensing |
| Dimension (W x H x D) | 80 mm x 130 mm x 25 mm |
| Weight | Device: 145 g |
| Bracket: 52 g (Including washer and bolt) |
| IP rating | IP65, IP67 |
| IK rating | IK08 |
| Certificates | CE, FCC, KC, RoHS, REACH, WEEE, SIG |
| Interface | RS-485 | 1ch |
| Wiegand | 1ch |
| LED | 2ch |
| Beep | 1ch |
| Tamper | Supported |
| Electrical | Power | Voltage: DC 12 V, Current: Max. 400 mA |
| Switch input VIH | Min. 3VMax. 5V |
| Switch input VIL | Max. 1V |
| Switch Pull-up resistance | 4.7kΩ (The input ports are pulled up with 4.7kΩ.) |
| Wiegand output VOH | More than 4.8V |
| Wiegand output VOL | Less than 0.2V |
| Wiegand output Pull-up resistance | Internally pulled up with 1 kΩ |
| Platform | BioStar 2 | Supported |
| BioStar 1 | Not 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. STORAGE
6. The device shall be stored in an environment where temperature is in the range of -40°C - +70°C.
7. The device shall be stored in an environment where humidity is in the range of 0% - 95%, non-condensing.
8. INSTALLATION
9. The device shall be installed in an environment where temperature is in the range of -35°C - 65°C.
10. The device shall be installed in an environment where humidity is in the range of 0% - 95%, non-condensing.
11. All wires shall be run through conduit to prevent failure caused by rodent damage.
12. Connections between card readers and a door controller shall not exceed 100 meters.
13. All peripheral devices shall be grounded.
14. To avoid RF interference, a minimum separation distance must be maintained.

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| Wall thickness | Distance |
| 100 mm | 400 mm |
| 120 mm | 380 mm |
| 150 mm | 380 mm |

1. EXAMINATION
2. All connections to the reader/controller shall be tested for proper levels of performance.

END OF SECTION