**SUPREMA TIME AND ATTENDANCE / WORKFORCE MANAGEMENT**

**MULTIMEDIA WORKSTATION - OMNIS**

**TECHNICAL SPECIFICATIONS**

2019-11-05

# PART 1 - GENERAL

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

* 1. SUMMARY

1. Section includes a time attendance and workforce management terminal with the Android open platform.
2. Product - A biometric terminal, capable of integrating with the time attendance and workforce management applications.
   1. REFERENCE
3. Standards
4. IEEE 802.3 Ethernet Standards
5. FCC - Code of Federal Regulations, Title 47, Part 15, Class B
6. Conformity for Europe (CE) – R&TTE Directive 1999/5/EC
7. Korea Certification (KC)
8. Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) - (EC No. 1907/2006)
9. The Waste Electrical and Electronic Equipment (WEEE) - Directive 2012/19/EU
   1. SUBMITTALS
   2. QUALIFICATIONS
10. Manufacturer shall be ISO 9001 certified with a minimum of five years’ experience in producing access control equipment.
11. Installers shall be trained by the Manufacturer to install, configure and commission the access control system.
    1. WARRANTY
12. 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)  
   <http://support.supremainc.com>
3. Model(s): OMNIS
4. Alternates: NONE
5. DESCRIPTION
6. The biometric terminal shall be an IP-enable device capable of scanning fingerprints and RFID cards for managing the time attendance and workforce.
7. FEATURES
8. Time Attendance and Workforce Management terminal based on Android 8.0 Oreo
9. Open platform SVP Android SDK for easy integration of a customized user interface
10. Quad Core 1.0 GHz with 1GB RAM
11. Live Finger Detection (LFD)
12. Multi-class RFID card reading
13. Built-in Wi-Fi module (IEEE 802.11 b/g)
14. NIST MINEX certified and compliant
15. 5” TFT color LCD with capacitive touch screen
16. CMOS 2M pixels camera
17. Wi-Fi, Wiegand Input, TTL, Relay, USB, SD Card, PoE, Tamper
18. SPECIFICATIONS

|  |  |  |
| --- | --- | --- |
| **Category** | **Feature** | **Specification** |
| Credential | Biometric | Fingerprint |
| RF Option | OMNIS-E: 125kHz EM |
| OMNIS-H: 125kHz HID Prox |
| OMNIS-I: 13.56MHz iCLASS SE/SR/Seos, NFC |
| OMNIS-M: 13.56MHz MIFARE, MIFARE Plus, DESFire/EV1, FeliCa, NFC |
| RF read range\* | MIFARE: 50 mm, DESFire: 50 mm, FeliCa: 30 mm  *\* RF read range will vary depending on the installation environment.* |
| General | CPU | 1.0 GHz Quad Core |
| Memory | 8GB Flash + 1GB RAM |
| LCD type | 5” color TFT LCD |
| LCD resolution | 480 x 854 pixels |
| LED | Multiple colors |
| Sound | 24 bit/Voice DSP (echo cancellation) |
| Operating temperature | -20°C ~ 50°C |
| Storage temperature | -40°C ~ 70°C |
| Operating humidity | 0% ~ 80%, non-condensing |
| Storage humidity | 0% ~ 90%, non-condensing |
| Camera type | CMOS 2M pixels |
| Camera resolution | 1600 x 1200 pixels |
| Camera angle | Diagonal 122°, Horizontal 64.7°, Vertical 103.3° |
| Dimension (W x H x D) | 155 mm x 155 mm x 40 mm |
| Weight | Device: 444g |
| Bracket: 89g (Including washer and bolt) |
| Certificates | CE, FCC, KC, RoHS, REACH, WEEE |
| Fingerprint | Image dimension | 272 x 320 pixels |
| Image bit depth | 8bit, 256 grayscale |
| Resolution | 500 dpi |
| Template | SUPREMA / ISO 19794-2 / ANSI 378 |
| Extractor / Matcher | MINEX certified and compliant |
| LFD | Supported |
| Capacity | Max. User (1:1) | 50,000 |
| Max. User (1:N) | 20,000 |
| Max. Template (1:1) | 100,000 *\* Two templates per finger* |
| Max. Template (1:N) | 40,000 *\* Two templates per finger* |
| Interface | Wi-Fi | Supported (Built-in, IEEE 802.11 b/g) |
| Ethernet | Supported (10/100 Mbps, auto MDI/MDI-X) |
| RS-485 | Not supported |
| RS-232 | Not supported |
| Wiegand | 1ch Input |
| TTL input | 2ch Inputs |
| Relay | 2 Relays |
| USB | USB 2.0 (Host) |
| SD Card | microSD card (Supports up to 32GB) |
| PoE | Supported (IEEE 802.3af compliant) |
| Tamper | Supported |
| Analog intercom | Not supported |
| Electrical | Power | Voltage: DC 12V  Current: Max. 850 mA |
| Switch input VIH | Min. 3V Max. 5V |
| Switch input VIL | Max. 1V |
| Switch Pull-up resistance | 4.7kΩ (The input ports are pulled up with 4.7kΩ.) |
| Relay | Voltage: Max. 30VDC Current: Max. 1A |

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 device 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 device shall be stored in an environment where temperature is in the range of -40°C - +70°C.
8. The device shall be stored in an environment where humidity is in the range of 0% - 90%, non-condensing.
9. INSTALLATION
10. The device shall be installed in an environment where temperature is in the range of -20°C - 50°C.
11. The device shall be installed in an environment where humidity is in the range of 0% - 80%, non-condensing.
12. All wires shall be run through conduit to prevent failure caused by rodent damage.
13. All peripheral devices shall be grounded.
14. To avoid RF interference, a minimum separation distance must be maintained.

|  |  |
| --- | --- |
| Wall thickness | Distance |
| 100 mm | 500 mm |
| 120 mm | 400 mm |
| 150 mm | 300 mm |

1. EXAMINATION
2. All network connections to the device shall be tested for proper levels of performance.

END OF SECTION