

Omni Series - Omni20

All Weather Outdoor Multi-tech Smart Standalone Terminal

- Multi-Biometric technology combining palm and face authentication
- IP66 water & dustproof protection rating
- Slim design & form factor for a modern aesthetic design
- Supports 125 kHz and 13.56 MHz frequency credentials







Slim Design & Mounting Options

The devices slim design with its backplate suits most architectural and interior designs. The Omni20 supports multiple mount types to meet most scenarios worldwide. Mounting accessories for speedgates are also available.



Modern Aesthetic Design

The build of the Omni20 blends a high quality metal enclosure with a tempered glass panel. The elegant design fits perfectly into any usage scenario and its sleek design brings a practical and reliable experience to users.



IP66 Water & Dustproof Protection Rating

Certified IP66 water & dustproof rating ensures the readers can withstand dust, dirt, sand, and are resistant to strong winds and rain.



Industry-Leading Design and User Experience

The Omni20 provides an improved user experience with a 2.4" high resolution touchscreen screen and intuitive UI design. Using our advanced algorithms, users can get the best verification experience. Palm authentication distance range: 7" - 15.7" (18cm - 40cm) Face authentication distance range: 15.7"- 47.2" (40cm -



Advanced Security

Secure communication: OSDP(V2.2) over RS485 communication between the Omni20 and access control panels. Using AES-128 encryption standards ensures the highest levels of data protection &



Variable Input Voltage

The device is compatible with 12V input voltages.



Supports Multi-Card Types

Supports 125 kHz and 13.56 MHz frequency credentials. Supports various card types including EM, IC Card, HID Prox, HID iCLASS, DESFire and FeliCa.



Outdoor Rated for Variable Environments

IP66 Weatherproof rating - built to withstand freezing cold winters, heavy rains and dry/hot summers. -20°C to 60°C/ -4°F - 140°F operating temperature enables operation even under the most severe weather conditions.



Multi-Factor Authentication Capability

Offering credential options of palm, face, physical cards and QR codes.

- *IC Card, Desfire, HID Prox, iClass, SEOS, etc. *Integrate advanced multiple biometric
- authentication methods such as palm and face. *QR code scanning for visitors & employees.
- *PIN code option.



Unrivaled Palm

and Face Authentication Performance

ARMATURA's Multi-Biometric technology combines palm and face authentication with our unique deep learning algorithm to give users an efficient authentication experience.



Industry-leading combination of visible and NIR infrared authentication technology provides exceptional authentication accuracy and the industry's top-notch anti-spoofing protection.



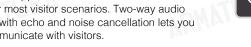
Touchless Solution for New standards of the Post-pandemic World

The Omni20 meets the needs of the contactless world with features like remote user enrollment, palm, mask detection and face authentication for users with or without masks. Our Palm/ Face/ Card/ QR code authentication technology supports contactless authentication.



The Omni20 supports video intercom function suitable for most visitor scenarios. Two-way audio streaming with echo and noise cancellation lets you easily communicate with visitors.







Better Images, Faster Authentication

This device supports palm/ face tracking, which can more intelligently capture the user's biometrics and avoid the user's biometric from continuing to be compared after verifying. At the same time, the plam/ face AE function enables the device to obtain higher quality images which improves the authentication accuracy.



Installation Made Easy

Slim design & form factor makes this device easy to install. PoE option allows for minimal use of cabling and lowers the cost of installation. The Omni20 is suited for mullion-mount door installations or any flat surface mounting. Mounting accessories for speedgates are also available



ARMATURA

ARM ATURA

Dimensions

RMATURA

ARM ATURA

ARMATURA



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|------|-------------------------------|---|---|-----------|
| | | General Ir | formation | |
| | Primary Power | 12 VDC (3A | min @12V) | |
| | RS485 connection | Port 1: RS48 | 85 standard / OSDP V2.1.7 | |
| | CPU | 1.2 GHZ Qu | ard Core ARM Processor | |
| . 21 | NPU | 2.4 TOPS N | PU | RA |
| | Memory | 8 GB Flash | + 1 GB RAM | |
| וח. | Camera | Palm Autom Face trackin Palm trackir WDR HDR 50Hz to 60H Dual Camer | dz Automatic Adaption | R.A. |
| | Primary Host Communication | | o/ 100 Mbps, auto MDI/ MDIX th TLS 1.2 for end to end secure communication | n channel |
| | Ethernet network connection | Port 1:10/ 10 | 00 Mbps, auto MDI/ MDIX | |
| NO. | Data Protection | (Secured Co | or th TLS 1.2 for end to end secure communication ommunication between Standalone Terminal & Secured Communication between Standalone Terminal & Secured Communication Detween Detween Standalone Detween | Server) |
| Win | Number of Ports | 1*TCP/IP 1*RS-485 Input: 4ch T Output: 1ch 3 relays | | |
| | Inputs | Wiegand in, | Button, Sensor in, Aux Input | |
| la | Outputs | 3 relays with | n dry contacts, Wiegand Output, Lock, Alarm, Be | ell |



| | Normally Open Contact Rating | 5A @30Vdc resistive |
|-----|--|---|
| | Normally Closed Contact Rating | 5A @30Vdc resistive |
| 2MI | Tamper Switch | Magnetic tamper detection system |
| | On-Board Monitor | Size: 2.4", Resolution: 320*240, Touch Monitor, TFT |
| | Audio Indicator | Internal speaker with adjustable intensity (Configurable on UI) |
| | MIC | Supported |
| | User Capacity | 50,000 |
| | RFID Card Capacity | 50,000 (1:N)/ 50,000 (1:1) |
| RM | Maximum RFID Card Number Length | Wiegand In & Out (up to 64 bits) |
| | Face Capacity | 10,000 (1:N)/ 50,000 (1:1) |
| | Palm Capacity | 5,000 (1:N)/ 20,000 (1:1) |
| | RFID Reading Distance | 13.56MHz & 125kHz: Up to 1.96"/ 50 mm (depending on environment and transponder) |
| | Face Authentication Distance | Dual Camera Liveness Detection On: 15.7" - 55.1" (40cm - 140cm) Single Camera Liveness Detection On: 15.7" - 78.7" (40cm - 200cm) |
| RM | Palm Authentication Distance and Angle Tolerance | 7" - 15.7" (18cm - 40cm) / Pitch +/- 35, Yaw +/- 60, Roll +/-35, Blend +/-30 |
| | Face Authentication Speed | 100ms (Field Test Result) |
| | Live Face Detection (Anti-Spoofing) | Supported |
| | Recommend Installation Height: | Recommended Installation Height: 55" (140cm) (Using the plate with tilt angle) 59" (150cm) (Plate with horizontal angle) |
| RM | Palm authentication Speed | 140ms (Field Test Result) |
| | Transaction Buffer | Records: 1,000,000 |
| | Access group | 99 ATT RA |
| | On-Board Access Point Control | 1 access point on board |
| | On-Board Reader Support | 1 (OSDP over RS485) or 1 (Wiegand Input) |
| | Protection / Resistance | Weather & Dust Proof Protection Rating compliant with IP66 |
| RM | YKWIYI . | |

RMATURA ARMATURA



| RFI | RFID / Biometrics Reader Interface | | | | |
|-----------------------|--|-----------------------------------|------------|--|--|
| Input Voltage | 12 VDC (3A min @12V) (Equal to primary p | power input) | .=11 | | |
| Maximum Input Current | 12 VDC (3A min @12V) (Equal to primary p | power input) | | | |
| RS-485 Protocol | OSDP 2.1.7 Secure Channel, AES-128 | | | | |
| OSDP Mode | 9600-115200 bps, OSDP V2.1.7, asynchron and 1 stop bit. | nous, half-duplex, 1 start bit, 8 | data bits, | | |
| Wiegand | Wiegand In & Out (Up to 64 bits) | | | | |
| Data Inputs | TCP/IP, RS485, OSDP and Wiegand stand Maximum RS485/ OSDP cable length: 500f Maximium Wiegand cable length: 328ft (100 | ft (152m) | | | |

| A DMATUR ^M | A DMATURA | LEMATURA |
|-----------------------|--------------------------------|---|
| Man. | Cable Requirement | 181.c |
| Power & Relays | One twisted pair, 18 to 16 AWG | . in l |
| Ethernet | CAT-5, minimum 330 ft. (100m) | UKA ARMATI |
| RS-485 Reader Port | | duplex, 1 start bit, 8 data bits, and 1 stop bit. nield, 120 ohm impedance, 22-18 AWG, |
| Wiegand Port | 20 AWG shielded ,328ft. (100m) | |

| | Mechanical | | | | |
|------------------|---------------------------------------|---|------------|--|--|
| Dimensions | 2.3" W x 0.77" D |) x 7.3" H (58.47 x 19.5x 184.97mm) | TIRA | | |
| Weight | 327g | | 1014 | | |
| Mounting | Suited for mullio Supports rots-02 | n-mount door installations or any flat surface 2 bracket | e mounting | | |
| Housing Material | Aluminium alloy | + Tempered glass | ARMAIO | | |





| 100.00 | Environmental | lw. | |
|---------------------------------|---------------------------------|--------|--|
| Operating & Storage Temperature | -4°F ~ 140°F (-20°C ~ 60°C) | Δ .=11 | |
| Operating Humidity | 10 - 95% RH (Non-condensing) | ARMAIL | |
| Certification(s) | CE, FCC, RoHS, UL (coming soon) | | |

| XI Z | Software Interface | Z., |
|----------------------|---|--------------|
| TCP/IP Mode | Ethernet: 10 - 100Base-TX | |
| TCP/IP Protocol | VLAN, SSH, HTTP, IPv4, DNS | ARMATI |
| TCP/IP Encryption | Complied up to TLS1.2 end to end secure communication | tion channel |
| TCP/IP Communication | Push Protocol over HTTP, HTTPS and BEST Protocol | over websock |
| Supported Software | Armatura One Security System, Cielo365 | WILDE |

ARMATURA

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