

## OmniAC Series - OmniAC20

### 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 & Installation Made Easy

The device's slim design with its backplate suits most architectural and any flat surface mounting. Slim design & form factor makes this device easy to install. Mounting accessories for speed gates are also available.



#### 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.



#### Advanced Security

Secure communication: OSDP (V2.0/ 2.2") over RS-485 communication between the OmniAC20 and access control panels. Using AES-128 encryption standards ensures the highest levels of data protection & security.



#### Supports Multi-Card and Mobile Credential Types

The OmniAC20 offers support for 125 KHz and 13.56 MHz frequency credentials, with compatibility for various card types including EM, IC Card, HID Prox, HID iCLASS, DESFire, and FeliCa, based on the specific RFID module installed. Furthermore, mobile credentials utilizing Bluetooth Low Energy (BLE) are exclusively supported through the RNIB and RNPB RFID modules in conjunction with the Armatura ID mobile app, delivering a seamless and versatile authentication experience.



#### 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.



#### Video Intercom

The OmniAC20 supports standard SIP V2.0 protocol, making it suitable for a wide range of visitor scenarios. With two-way audio streaming and advanced echo and noise cancellation, communication with visitors is a breeze. Additionally, the OmniAC20 supports the Armatura ICS mobile app, enabling seamless cloud-based video intercom services for enhanced convenience and accessibility.



#### Tap-To-Wake

The function enables activation of face authentication camera upon detection of face, in case always-on face authentication is not needed, which reduces the heat generated by the always-on face authentication of the camera for better protection and performance of the device.



#### Modern Aesthetic Design

The build of the OmniAC20 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.



#### Industry-Leading Design and User Experience

The OmniAC20 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" (180mm-400mm)
- Face authentication distance range: 15.7"-47.2" (400mm-1200mm)



#### Power & Voltage

The device is compatible with 12V-24V input voltages.



#### Outdoor Rated for Variable Environments

IP66 Weatherproof rating - built to withstand freezing cold winters, heavy rains and dry/hot summers. 14°F -113°F (-10°C to 45°C) operating temperature enables operation even under the most severe weather conditions.



#### Unrivaled Palm and Face Authentication Performance

ARMATURA's Multi-Biometric technology combines palm and face authentication with a unique deep-learning algorithm to deliver an efficient and seamless authentication experience. The industry-leading combination of visible and NIR infrared authentication technology ensures exceptional accuracy and robust anti-spoofing protection. Furthermore, the Palm authentication technology complies with the ISO/IEC 19795-2 certification, underscoring its reliability and performance in real-world applications.



#### Touchless Solution for New standards of the Post-pandemic World

The OmniAC20 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.



#### Supports BioCode Function

The OmniAC20 supports the BioCode function, a feature available in the Armatura ID mobile app. BioCode converts biometric templates into a QR code, which is securely stored on the user's mobile device only. This approach ensures that no biometric data is stored on other devices, addressing privacy concerns while maintaining a secure and efficient authentication experience. (Required Individual firmware, please contact Armatura Regional Sales)

## Dimensions



## General Information

|                                |                                                                                                                                                                                                                                                                                              |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Primary Power                  | DC 12V@3A-24V@1.5A, Power Max. 10W                                                                                                                                                                                                                                                           |
| Operating Frequency/ Standard  | 125KHz<br>13.56MHz: ISO14443 types A&B, JIS X6319, ISO 15693<br>2.4GHz Bluetooth (BLE)                                                                                                                                                                                                       |
| RS-485 connection              | RS-485 standard / OSDP V2.0/ 2.2*                                                                                                                                                                                                                                                            |
| CPU                            | 1.2 GHz Quad Core ARM Processor                                                                                                                                                                                                                                                              |
| NPU                            | 2.4 TOPs NPU                                                                                                                                                                                                                                                                                 |
| Memory                         | 1GB RAM + 8GB Flash                                                                                                                                                                                                                                                                          |
| Camera                         | Face Automatic Exposure<br>Palm Automatic Exposure<br>Face Tracking<br>Palm Detection<br>50Hz/60Hz Anti-Flicker<br>Dual Camera<br>Visible Light Camera: CMOS, 2 MP resolution (Output image 720*960pixels)<br>IR Camera: Global shutter CMOS, 1.3 MP resolution (Output image 720*960pixels) |
| Ethernet network connection    | 10 Base-T/ 100 Base-TX, Auto MDI/ MDIX                                                                                                                                                                                                                                                       |
| Data Protection                | Complies with TLS 1.2 for end-to-end secure communication channel (Secured Communication between Standalone Terminal & Server)<br>AES128 (Secured Communication between Standalone Terminal & OSDP Reader & Access Control Panel)                                                            |
| Number of Ports                | 1*TCP/IP<br>1*RS-485<br>4ch TTL Inputs<br>1ch TTL Output<br>3 relays                                                                                                                                                                                                                         |
| Inputs                         | Wiegand, Button, Sensor, Aux                                                                                                                                                                                                                                                                 |
| Outputs                        | Wiegand, Lock Relay, Alarm Relay (Relay via dry contacts)                                                                                                                                                                                                                                    |
| Normally Open Contact Rating   | 1A @30Vdc resistive                                                                                                                                                                                                                                                                          |
| Normally Closed Contact Rating | 1A @30Vdc resistive                                                                                                                                                                                                                                                                          |

|                                          |                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tamper Switch                            | Magnetic tamper detection system                                                                                                                                                                                                                                                                                                                        |
| On-Board Monitor                         | Size: 2.4", Resolution: 240*320 , Touch Screen, TFT LCD                                                                                                                                                                                                                                                                                                 |
| Audio Indicator                          | Internal speaker with adjustable intensity (Configurable on UI)                                                                                                                                                                                                                                                                                         |
| MIC                                      | Supported                                                                                                                                                                                                                                                                                                                                               |
| Video Intercom                           | Support Standard SIP V2.0                                                                                                                                                                                                                                                                                                                               |
| User Capacity                            | 50,000 (Standard), 100,000 (Optional)                                                                                                                                                                                                                                                                                                                   |
| RFID Card Capacity                       | 50,000 (1:N)/ 50,000 (1:1) (Standard); 100,000 (1:N)/ 100,000 (1:1) (Optional)                                                                                                                                                                                                                                                                          |
| Maximum RFID Card Number Length          | Wiegand In & Out (up to 128 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             | 15.7" - 55.1" (400mm - 1400mm)                                                                                                                                                                                                                                                                                                                          |
| Face Authentication Posture Adaptability | Yaw $\leq 30^\circ$ , Pitch $\leq 30^\circ$ , Roll $\leq 30^\circ$                                                                                                                                                                                                                                                                                      |
| Face Authentication Accuracy             | True Accept Rate (TAR)=99%@ , False Accept Rate(FAR)=0.01%                                                                                                                                                                                                                                                                                              |
| Face Authentication Mode                 | 1:1, 1:N                                                                                                                                                                                                                                                                                                                                                |
| Face Authentication Speed                | < 100ms (Field Test Result)                                                                                                                                                                                                                                                                                                                             |
| Face Authentication Liveness Detection   | Yes (Infrared-visible light mode, Visible Light Mode)                                                                                                                                                                                                                                                                                                   |
| Face Mask Detection                      | Yes                                                                                                                                                                                                                                                                                                                                                     |
| Palm Authentication Distance             | 7" -15.7" (1800mm - 400mm)                                                                                                                                                                                                                                                                                                                              |
| Palm Authentication Posture Adaptability | Yaw $\leq 45^\circ$ , Pitch $\leq 30^\circ$ , Roll $\leq 90^\circ$ , Bend $\leq 30^\circ$                                                                                                                                                                                                                                                               |
| Palm Authentication Accuracy             | True Accept Rate(TAR)=98.7%@ , False Accept Rate(FAR)=0.01%                                                                                                                                                                                                                                                                                             |
| Palm Authentication Mode                 | 1:1, 1:N                                                                                                                                                                                                                                                                                                                                                |
| Palm Authentication Speed                | < 140ms (Field Test Result)                                                                                                                                                                                                                                                                                                                             |
| Palm Authentication Liveness Detection   | Yes (Infrared Light Mode)                                                                                                                                                                                                                                                                                                                               |
| QR Code Detection                        | QR Code Scanner: Supported<br>QR Code Scanning Pattern: Area image (720*1280 pixel array)<br>QR Code Scan Angle: Horizontal: 37.9°/ Vertical: 62.9°<br>QR Code Capability: QR Code (Armatura ID); Static QR (customizable)<br>QR Code Scanning Performance*:<br>Armatura ID QR Code:0.5"-2.05" (12.7mm - 52.07mm);<br>BioCode:0.59"-1.26" (15mm - 32mm) |
| Recommend Installation Height            | 55" (140cm) (Using the plate with tilt angle)<br>59" (150cm) (Plate with horizontal angle)                                                                                                                                                                                                                                                              |

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| Recommend Installation Height | 55" (140cm) (Using the plate with tilt angle)              |
|                               | 59" (150cm) (Plate with horizontal angle)                  |
| Transaction Buffer            | Records: 1,000,000                                         |
| Access group                  | 99                                                         |
| On-Board Access Point Control | 1 access point on board                                    |
| On-Board Reader Support       | 1 (OSDP over RS-485) or 1 (Wiegand Input)                  |
| Protection / Resistance       | Weather & Dust Proof Protection Rating compliant with IP66 |

## RFID / Biometrics Reader Interface

|                        |                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Voltage         | DC 12V@3A-24V@1.5A (Equal to primary power input)                                                                                                      |
| Maximum Output Current | DC 12V@3A-24V@1.5A (Equal to primary power input)                                                                                                      |
| RS-485 Protocol        | OSDP V2.0/ 2.2* Secure Channel, AES-128                                                                                                                |
| OSDP Mode              | 9600-115200 bps, OSDP V2.0/ 2.2*, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit.                                                 |
| Wiegand                | Wiegand In & Out (Up to 128 bits)                                                                                                                      |
| Data Inputs            | TCP/IP, RS-485, OSDP and Wiegand standards supported.<br>Maximum RS-485/ OSDP cable length: 1970ft (600m)<br>Maximum Wiegand cable length: 164ft (60m) |

\*Subject to firmware version

## Cable Requirement

|                    |                                                                                                                                                                                                            |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power              | 16AWG or 18AWG (DO NOT extend the length of power cable when using the power adapter)                                                                                                                      |
| Relays             | Twisted pair, 18 to 16 AWG                                                                                                                                                                                 |
| Ethernet           | CAT-5E, Wire diameter (24AWG), maximum 330 ft. (100m)                                                                                                                                                      |
| RS-485 Reader Port | 9600-115200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit.<br>One twisted pair with drain wire and shield, 120 ohm impedance, 22-18 AWG,<br>Maximum cable length: 1970ft (600m) |
| Wiegand Port       | 20 AWG shielded, 164ft (60m)                                                                                                                                                                               |

## Mechanical

|                  |                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------|
| Dimensions       | 2.3" W x 0.77" D x 7.3" H (58.47 x 19.5x 184.97mm)                                                   |
| Weight           | 0.721lb (327g)                                                                                       |
| Mounting         | Suited for mullion-mount door installations or any flat surface mounting<br>Supports rots-02 bracket |
| Housing Material | Aluminum alloy + Tempered glass                                                                      |

| Environmental         |                                                                                 |
|-----------------------|---------------------------------------------------------------------------------|
| Operating Temperature | 14°F -113°F (-10°C to 45°C)                                                     |
| Storage Temperature   | -4°F -140°F (-20°C to 60°C)                                                     |
| Operating Humidity    | 0 - 90% RH (Non-condensing)                                                     |
| Certification(s)      | CE, FCC, MIC, RoHS, ISO/IEC 19795-2 (Palm Recognition using the PalmElite SDK.) |

| Software Interface   |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| TCP/IP Mode          | 10 Base-T/ 100 Base-TX, Auto MDI/ MDIX                                                                                                             |
| TCP/IP Protocol      | VLAN, SSH, HTTP, IPv4, DNS                                                                                                                         |
| TCP/IP Encryption    | Complied up to TLS1.2 end to end secure communication channel                                                                                      |
| TCP/IP Communication | Gladius Protocol over HTTP, HTTPS                                                                                                                  |
| Supported Software   | Security Platform: Armatura One<br>Mobile Credentials: Armatura ID (Mobile App) (RNIB / RNPB version)<br>Video Intercom: Armatura ICS (Mobile App) |

| ARMATURA |           |                | ARMATURA RFID Card Module Supporting List |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|          | Frequency | Classification | Card Module Abbreviation                  | [DF]                                                          | [SP/MH]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | [NO] | [NP] | [NI] | [NPL] | [NIH] | [RNP] | [RNI] | [RNPB]           | [RNB] |
|          |           |                | Compatible Readers                        | EP10C/ EP20C/ EP20CK/ EP20CKQ/ EP20CKQ1/ EP20ENC/ EP30 Series | EP10C/ EP20CK/ EP20CKQ/ EP20CKQ1/ EP20CKQ2/ EP20CKQ3/ EP20CKQ4/ EP20CKQ5/ EP20CKQ6/ EP20CKQ7/ EP20CKQ8/ EP20CKQ9/ EP20CKQ10/ EP20CKQ11/ EP20CKQ12/ EP20CKQ13/ EP20CKQ14/ EP20CKQ15/ EP20CKQ16/ EP20CKQ17/ EP20CKQ18/ EP20CKQ19/ EP20CKQ20/ EP20CKQ21/ EP20CKQ22/ EP20CKQ23/ EP20CKQ24/ EP20CKQ25/ EP20CKQ26/ EP20CKQ27/ EP20CKQ28/ EP20CKQ29/ EP20CKQ30/ EP20CKQ31/ EP20CKQ32/ EP20CKQ33/ EP20CKQ34/ EP20CKQ35/ EP20CKQ36/ EP20CKQ37/ EP20CKQ38/ EP20CKQ39/ EP20CKQ40/ EP20CKQ41/ EP20CKQ42/ EP20CKQ43/ EP20CKQ44/ EP20CKQ45/ EP20CKQ46/ EP20CKQ47/ EP20CKQ48/ EP20CKQ49/ EP20CKQ50/ EP20CKQ51/ EP20CKQ52/ EP20CKQ53/ EP20CKQ54/ EP20CKQ55/ EP20CKQ56/ EP20CKQ57/ EP20CKQ58/ EP20CKQ59/ EP20CKQ60/ EP20CKQ61/ EP20CKQ62/ EP20CKQ63/ EP20CKQ64/ EP20CKQ65/ EP20CKQ66/ EP20CKQ67/ EP20CKQ68/ EP20CKQ69/ EP20CKQ70/ EP20CKQ71/ EP20CKQ72/ EP20CKQ73/ EP20CKQ74/ EP20CKQ75/ EP20CKQ76/ 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| ARMATURA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                          |                                                               |                                                                         |                |                |                                                                                                                                                                                                                      |       |       |                                                              |                                                              |                    |                    | ARMATURA RFID Card Module Supporting List                                                                                                                                            |   |   |   |    |    |  |  |  |  |  |  |  |  | ArmaSec-03142025 |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------|----------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|----|----|--|--|--|--|--|--|--|--|------------------|--|--|--|
| Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Classification | Card Module Abbreviation | [DF]                                                          | [SEFMH]                                                                 | [NO]           | [NP]           | [NI]                                                                                                                                                                                                                 | [NPL] | [NIH] | [RNP]                                                        | [RNI]                                                        | [RNPB]             | [RNIB]             |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
| 125KHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                | Compatible Readers       | EP10C/ EP20C/ EP20CK/ EP20CKO/ EP20CKOJ/ EP20ENC/ EP30 Series | EP10C/ EP20C/ EP20CK/ EP20CKO/ EP20CKOJ/ EP20ENC/ EP30 Series/ VG10CKO* | EP10C/ EP20ENC | EP10C/ EP20ENC | EP10C/ EP20CKO/ EP20CKOJ/ EP20ENC EP30 Series                                                                                                                                                                        | EP10C | EP10C | OmniAC20/ OmniAC30/ EP20CKO/ EP20CKOJ/ EP30 Series/ VG10CKO* | OmniAC20/ OmniAC30/ EP20CKO/ EP20CKOJ/ EP30 Series/ VG10CKO* | OmniAC20/ OmniAC30 | OmniAC20/ OmniAC30 |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | ✓              | ✓              | ✓                                                                                                                                                                                                                    | ✓     |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         | 2.4GHz         | Availability   | GLOBALLY AVAILABLE<br>(Except for U.S., E.U., Japan, Australia, Canada, U.K., Norway, Denmark, Lithuania, Latvia, Estonia, North Macedonia, Norway, San Marino, Serbia, Switzerland, Turkey, and the United Kingdom) | Y     |       | Y                                                            | Y                                                            | Y                  | Y                  | Y                                                                                                                                                                                    | Y | Y | Y | Y* | Y* |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         |                |                |                                                                                                                                                                                                                      |       |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         |                |                |                                                                                                                                                                                                                      |       |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         |                |                |                                                                                                                                                                                                                      |       |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         |                |                |                                                                                                                                                                                                                      |       |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         |                |                |                                                                                                                                                                                                                      |       |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         |                |                |                                                                                                                                                                                                                      |       |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         |                |                |                                                                                                                                                                                                                      |       |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         |                |                |                                                                                                                                                                                                                      |       |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         |                |                |                                                                                                                                                                                                                      |       |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         |                |                |                                                                                                                                                                                                                      |       |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                          |                                                               |                                                                         |                |                |                                                                                                                                                                                                                      |       |       |                                                              |                                                              |                    |                    |                                                                                                                                                                                      |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |
| ✓) UID only, customization upon request for reading encryption content<br>1) UID only<br>2) Read/ write (customisation) enhanced security features on request<br>3) Read/ write (customisation) in direct chip command mode<br>4) UID only, read/ write (customisation) on request<br>5) UID + read/ write (customisation) public area<br>*The RNIB/ RNPB version is for devices that don't have built-in Bluetooth support. If the device already has Bluetooth Low Energy (BLE) built-in, then you don't need to use the RNIB/RNPB version. |                |                          |                                                               |                                                                         |                |                |                                                                                                                                                                                                                      |       |       |                                                              |                                                              |                    |                    | 13) EV2/ EV3 supported as part of the EV1 downward compatibility<br>14) From FW V4.05<br>15) 134.2 kHz only<br>20) PAC (CSN & Facility Code), read/ write (customisation) on request |   |   |   |    |    |  |  |  |  |  |  |  |  |                  |  |  |  |

The final interpretation of this data sheet belongs to Armatura LLC.

All information regarding the card formats supported by the RFID card modules are claimed by the provider(s) of the card modules. Armatura LLC accepts no liability.



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