ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

Explorer Series
EP30CF Multi-tech Fingerprint Reader











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Date: 9 Apr 2025

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**SECTION 1 GENERAL SPECIFICATIONS** 

1. PURPOSE

The purpose of this architecture and engineering specifications (A&E) document is to

provide guidance for the design, implementation, and installation of the Explorer

Series, EP30CF multi-tech fingerprint reader for access control security applications

and management.

2. GOALS AND OBJECTIVES

The EP30CF multi-tech fingerprint reader A&E specification aims to achieve the

following goals and objectives:

· Provide a highly secure and reliable multi-tech fingerprint reader with

advanced authentication and access control capabilities.

Ensure scalability and flexibility to accommodate varying user and system

requirements.

Meet or exceed relevant industry standards and regulations.

· Provide a clear and detailed specification for the design, supply, installation,

and commissioning of the EP30CF multi-tech fingerprint reader.

3. KEY FEATURES AND REQUIREMENTS

The EP30CF multi-tech fingerprint reader shall have the following key features and

requirements:

· Adopts advanced fingerprint scanning technology, with fingerprint algorithm

AMTFingerprint v10.0, supports the whole system to cascade up to millions of

fingerprint templates, and the fingerprint is irreversible to fingerprint photos under

any possible measures, and adopt the AES128 encryption standard.

Mobile credential capability for access control on both iOS and Android systems.

With the Armatura ID mobile app that supports NFC (Android operating system

only) and Bluetooth, allowing users to easily open doors by presenting your

smartphone to the reader, extending mobile access functions to almost all

smartphone users.

Supports Open Supervised Device Protocol (OSDP v2.2) via RS-485 for secure

communication between the control panel and the EP30CF reader.

Utilizes certified crypto chips with EAL6+ secure data storage.

Supports multi-tech reading including 125kHz,13.56MHz and 2.4GHz frequency

credentials.

Supports over 30 RFID card types, covering most of the common card formats in

the market.

Compact mullion mount design with optional gang box (Single gang, European

gang and Asian gang box).

IP65 water & dustproof protection rating to withstand dust, dirt, and sand

effectively and operate full under any installation environment.

The system shall comply with GDPR privacy standards.

• This product complies with IEC EN/BS EN60839 Grade 4 standards, meeting the

highest requirements for security and performance in intrusion and access control

systems.

4. DESIGN AND IMPLEMENTATION CONSTRAINTS

The design and implementation of the EP30CF multi-tech fingerprint reader shall

adhere to the following constraints:

The design shall be scalable and flexible to accommodate varying user and

system requirements.

• The implementation shall be done by trained installers who have been certified by

the manufacturer.

• The implementation shall comply with relevant standards and regulations.

The implementation shall ensure high-level cybersecurity to protect against

unauthorized access or data breaches.

#### 5. EXISTING STANDARDS AND REGULATIONS

The EP30CF multi-tech fingerprint reader shall comply with the following standards and regulations:

- FCC Standards
- CE Standards
- · IEC EN/ BS EN 60839 Grade 4
- · UL294 Standards (Coming Soon)
- · RoHS3.0 Standards
- WEEE Standards

#### 6. SUBMITTALS

The following submittals shall be provided by the manufacturer.

- Product data sheets
- Installation and operation manuals
- Technical support contact information
- Warranty information

#### 7. QUALIFICATIONS

The manufacturer shall have the following qualifications:

- ISO 9001 certification, ISO27701, ISO27001, ISO9001, ISO14001.
- Minimum of 5 years' experience in producing access control equipment.

#### 8. WARRANTY

The manufacturer shall provide a limited 36-month warranty for the EP30CF multi-tech fingerprint reader to be free of defects in material and workmanship.

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## **SECTION 2 TECHNICAL SPECIFICATIONS**

#### KEY FEATURES AND REQUIREMENTS

#### 1.1 Key Features

- i. Multi-tech RFID & Mobile Credential
  - Supports over 30+ RFID card types and dual RFID frequencies (125kHz and 13.56MHz). Also, supports both mobile NFC (Android operating system only) and Bluetooth (Low Energy).
- ii. Support Multi-card Types
  - The standard package supports over 30 RFID card types, with varies optional RFID modules available to over some extra advanced secured RFID protocols. It includes dual RFID frequencies (125kHz and 13.56MHz), as well as mobile NFC (Android operating system only) and Bluetooth (low energy credentials). OSDP Multi-tech Biometric Reader
- iii. One of the first OSDP multi-tech biometric readers in the market. Fully complied with the Open Surprised Device Protocol (OSDP) version 2.2 with secured communication encrypted by AES-128 standards and complies with AES-256 encryption standards for enhanced data protection. Also, the device uses EAL6+ certified crypto chip to secure data storage.
- iv. Advanced fingerprint scanning technology is highly advanced and capable of supporting millions of fingerprint templates. The system ensures that the fingerprint data is irreversible and cannot be converted back into a fingerprint image.
- v. Adopts the AMTFingerprint v10.0 fingerprint algorithm.
- vi. Provides two modes of mobile credential through the Armatura's ID mobile App across the iOS and Android systems on smartphones. The card mode presents your smartphone to the reader like an access card. The remote mode conducts the verification on the reader by clicking a button in the Armatura ID App.

vii. Operating Frequency: 125kHz, 13.56MHz: ISO14443 types A & B, ISO15693,

2.4GHz Bluetooth.

viii. The RFID reading distance for 13.56MHz & 125kHz multi-tech cards reading

distance is maximum at 2.3" or 60mm, depends on environment and

transponder.

ix. The RFID reading distance for the Bluetooth with a smartphone is up to

393.7" or 10m, and the distance is configurable on each reader.

x. Provides red, green and blue (RGB) LEDs as the visual indicator and it is

configurable by Armatura Connect mobile App.

xi. Equipped with an internal buzzer with adjustable intensity and it is configurable

by Armatura Connect mobile App.

xii. Provides back box for flush mount or surface mount on any flat surface

mounting.

xiii. Power supply ranges from 9 VDC to 24 VDC.

xiv. The standard dimensions without a metal case is 2.57" in length, 5.26" in

height and 1.54" in depth (65.2 x 133.7 x 39.1 mm).

xv. The standard dimensions with a metal case is 2.59" in length, 5.28" in height

and 1.54" in depth (65.9 x 134.2 x 39.1 mm).

xvi. The standard dimensions with a metal case and back case is 2.48" in length,

5.18" in height and 1.57" in depth (63 x 131.5 x 40 mm).

XVII. Fully operate at temperature ranges from -4°F to 131°F, which is equivalent

to -20°C to 55°C.

xviii. Complies with CE, FCC, UL294 (coming soon), RoHS 3.0 and WEEE

standards.

xix. Reached IP65 protection rating for water and dust proof to withstand dust,

dirt and sand effectively.

xx. This product complies with IEC EN/BS EN60839 Grade 4 standards, meeting the highest requirements for security and performance in intrusion and access control systems.

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## 2. TECHNICAL SPECIFICATIONS

# Dimensions 1.54"/ 39.1mm 2.59"/ 65.9mm 5.89"/ 133.7mm 2.57"/ 65.2mm 1.54"/ 39.1mm 5.89"/ 131.5mm 1.57"/ 40mm 5.89"/ 131.5mm EP30CF (With metal Case) EP30CF (Without metal Case) EP30CF (Without metal Case) EP30CF (Without metal Case) EP30CF (Without metal Case)

Specification Sp							
Internal Number	EP30CF						
Operating Frequency / Standards	125 kHz 13.56 MHz 2.4 GHz Bluetooth®5.2						
Functions	RFID, Bluetooth, Fingerprint						
Communications & Panel Connection	OSDP (v2.2) via RS485						
RFID Reading Distance	13.56MHz & 125kHz: Up to 2.3"/60 mm (depending on environment and transponder) Up to 393.7"/ 10m with a Bluetooth Smartphone (configurable distances on each reader)						
Data Protection	AES128 (Secured Communication between Reader & Controller) Secure Data Storage in EAL6+ Certified Crypto Chip						
Fingerprint Algorithm	AMTFingerprint v10.0						
Visual Indicator	RGB LEDs (Configurable By 'Armatura Connect' Mobile APP)						
Audio Indicator	Internal buzzer with adjustable intensity (Configurable By 'Armatura Connect' Mobile APP)						
Power Requirement / Power Supply	9 VDC to 24 VDC						
Operating Temperature	-4°F - 131°F /-20°C to 55°C						
Dimensions (L*H*D)	With Metal Case: 2.59" L x 5.28" H x 1.54" D (65.9 x 134.2 x 39.1mm) With Metal Case and Back Case: 2.48 L x 5.18 H x 1.57 D (63 x 131.5 x 40mm) Without Metal Case: 2.57" L x 5.26" H x 1.54" D (65.2 x 133.7 x 39.1mm)						
Tamper Switch	Magnetic tamper detection system						
Certifications	CE, FCC, UL294(Coming Soon), RoHs3.0, WEEE, IEC EN/ BS EN 60839 Grade 4						
Mounting	Back box for flush mount or surface mount on any flat surface mounting						
Protection / Resistance	Weather & Dust Proof Protection Rating compliant with IP65						

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## 3. ARMATURA CARD MODULES SUPPORTING LIST

Frequency Classification  LEGIC MATARE SE0,577  MIFARE MIF	FARE Classic EV1  **ARE DESFire Light  **FARE DESFire EV1  **FARE DESFire EV2  **FARE DESFire EV2  **FARE DESFire EV2  **FARE Smart MX  **FARE Smart MX  **FARE Ultralight  **FARE Ultralight C  **FARE Ultralight EV1  **C (NTAG2xx)  **E44R35  **DEGERRAC (my-d move)  **DICLASS SEOS  (C)HCE & NTAG2xx)	(DF	[SFMH]  EP10C/EP20C/EP20CW EP20CO/EP20CM EP20CO/EP20CM  V 4  V2  V8)  V3  V3  V3  V3  V4  V2)  V3  V3  V3  V3  V3  V3  V3  V3  V3  V	(NO)  EP10C/ EP20ENC	[NP]  EP10C/EP20ENC   √11)  √  √2  √8)  √  √3)  √  √  √3)  √  √2  √3  √3  √  √  √3  √  √  √  √  √  √  √	[NI]  EP10C/EP20C0/ EP20CKQ/EP20ENC EP30 Series   √1)  √  √2  √8)  √  √3)  √  √2  √  √3)  √  √  √3)  √  √  √3)	[NPL] EP10C	[NIH]  EP10C	(RNP)  OmnAC20/ OmniAC30/ EP20CO/ EP20CXC/ EP30 Series / VG10CXQ-	(RNI)  OmniAC20/ OmniAC30/ EP20CQ/ EP20CKC/ EP30 Series / VG10CKQ^	(RNIE)  OmniAC20/ OmniAC30	(RNPB)  OmniAC20/ OmniAC30
LEGIC MFARE SSO, 574 MFARE SSO, 574 MFARE MFARE MFARE MFARE MFARE MFARE MFARE NFC NC NC SLE44F SLEGOF TOPAZ HID ICL NFC/HK Calypsc Calypsc Calypsc SSI4K, ISO14443B ISO14443B ISO14443B ISO14443B ISO14443B ISO14443B ISO14443B	GIC Advant  "ARE Classic, Mini S, 570  "ARE Classic EV1  "ARE DESFire Light  "ARE DESFire EV1  "ARE DESFire EV1  "ARE DESFire EV2 EV3  "FARE Plus S, X  "ARE Plus S, X  "ARE Shart MX  "ARE Ultralight  "ARE Ultralight C  "ARE Ultralight EV1  "C (NTAG2xx)  E44R35  E66Rxx (my-d move)  DICLASS SEOS  (C)(HCE & NTAG2xx)	EPADCO/ EPADCKO/ EPADENO/ EPAD Series	EPROCO/ EPROCKO/ EPOZIENO/ EPRO Series/ VG10CKO*	√1)  √  √2)  √8)  √  √13)  √  √3)  √  √2  √  √3)  √  √3)	√1)  √2  √8  √13  √13  √  √3  √3  √  √3  √  √22  √  √3  √3	EPOCKQ/ EPOENC EP30 Series  v1)  v2  v8)  v1  v13)  v1  v3  v3  v3  v4  v4  v2  v8)  v4  v8)  v8  v8  v8  v8  v8  v8  v8  v8  v	EP10C	√1)  √2  √8)  √1  √13  √3  √  √3  √  √2  √8  √  √  √  √  √  √  √  √  √  √  √  √	EPROCY EPROCKY EP30 Series / VG10CKQ*	EP20CACY EP20CACY  (P30 Series/ VG10CKC*  (44)  (44)  (44)  (44)  (44)  (44)  (44)  (44)	√4) √4) √4) √4) √4) √4) √4) √4)	, (41) , (42) , (42) , (43) , (43) , (44) , (44) , (44)
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ISO14443B CTS Pico Pa SRI4K,	lypso Innovatron protocol		√3)	√3)	√3)	√3)		√3)				
Pico Pa SRI4K,			√3)	√3)	√3)	√3)		√3)				
SRI4K,	S			√	√	√		√10)				
			√1)	√4)	√4)	√4)		√4)				
	I4K, SRIX4K		√	√	√	√		√				
SRI512	I512, SRT512			√	√	√		√				
ISO18092/ ECMA-340 Sony Fe	ny FeliCa		√5)	√5)	√5)	√5)		√5)	√t)	√t)	√t)	√1)
EM4x33	14x33		√3)	√3)	√3)	√3)		√3)				
EM4x35	14x35		√3)	√3)	√3)	√3)		√3)				
HID iCL	CLASS		√1)	√1)	√1)	√10)		√10)	√1)	√10)	√10)	√1)
HID ICI	CICLASS SE/ SR/ Elite		√1)	√1)	√1)	√10)		√10)	√1)	√10)	√10)	√1)
iCODE	DDE SLI		√	√	√	√		√				
LEGIC	GIC Advant		√1)	√1)	√1)	√1)		√1)				
M24LR	4LR16/64		√	√	√	√		√				
ISO15693 MB89R	89R118/119			√	√	√		√				
SRF55'	F55Vxx (my-d vicinity)		√3)	√3)	√3)	√3)		√3)				
Tag-it			√	√	√	√		√				
Pico Pa			√1)	√4)	√4)	√4)		√4)				
LEGIC	GIC Prime		√									
CPU Ca												

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ARMATURA RFID Card Module Supporting List									Arma	aSec-07022025			
		Card Module Abbreviation	[DF]	[SFMH]	[NO]	[NP]	[NI]	[NPL]	[NIH]	[RNP]	[RNI]	[RNIB]	[RNPB]
Frequency	Classification	Compatible Readers	EP10C/ EP20C/ EP20CK/ EP20CQ/ EP20CKQ/ EP20ENC/ EP30 Series	EP10C/ EP20C/ EP20CK/ EP20CQ/ EP20CKQ/ EP20ENC/ EP30 Series/ VG10CKQ*	EP10C/EP20ENC	EP10C/EP20ENC	EP10C/EP20CQ/ EP20CKQ/ EP20ENC EP30 Series	EP10C	EP10C	OmniAC20/ OmniAC30/ EP20CQ*/ EP20CKQ*/ EP30 Series/ VG10CKQ*	OmniAC20/ OmniAC30/ EP20CQ*/ EP20CKQ*/ EP30 Series/ VG10CKQ*	OmniAC20/ OmniAC30	OmniAC20/ OmniAC3
		AWID			√	√	√	√					
		Cardax			√	√	√	√					
		CASI-RUSCO			√6)	√6)	√6)	√6)		√	√	√	√
		Deister			√6)	√6)	√6)	√6)					
		EM4100, 4102, 4200	√		√7)	√7)	√7)	√7)		√	√	√	√
		EM4050, 4150, 4450, 4550			√	√	√	√					
		EM4305			√	√	√	√					
		Ultra Prox			√	√	√	√					
		G-Prox				√6)	√6)	√6)					
		HID DuoProx II (1336)				√	√	√		√1)	√1)	√1)	√1)
		HID ISO Prox II (1386)				√	√	√		√1)	√1)	√1)	√1)
		HID Micro Prox II (1391)				√	√	√		√1)	√1)	√1)	√1)
		HID Prox III (1346)				√	√	√		√1)	√1)	√1)	√1)
		HID Prox				√	√	√		√1)	√1)	√1)	√1)
		HID Prox II (1326)				√	√	√		√1)	√1)	√1)	√1)
125KHz		HITAG 1, 2, S			√9)	√9)	√9)	√9)					·
		ICT			√8)	√8)	√8)	√8)					
		IDTECK			√	√	√	√					
		Indala				√	√	√					
		ioProx				√	√						
		ISONAS			√	√	√	√					
		Keri			√	√	√	√					
		Miro			√	√	√	√					
		Nedap			√6)	√6)	√6)	√6)					
		Nexwatch				<b>√</b>	√	√					
		Pyramid			√	√	√	√					
		Q5			√	<b>√</b>	√	√					
		T5557, T5567, T5577			√	J	J	1/					
		TITAN (EM4050)			√	√	J	1					
		UNIQUE			√	, J	J	√					
		ZODIAC			√	√	, /	√					
2.4GHz		BLE										Y*	Y*
		Globally Available		Υ				Υ	Y	Y	Υ		
	Availability	Globally Available Except for U.S., E.U., Japan, Australia, Canada, U.K., Albania, Iceland, Liechtenstein, Monaco, North Macedonia, Norway, San Marino, Serbia, Switzerland, Turkey, and the United Kingdom	Υ		Υ	Y	Y						
1) UID only 2) Read/ wr 3) Read/ wr 4) UID only, 5) UID + rea	rite (customisatio rite (customisatio r, read/ write (cus ad/ write (custom	upon request for reading encryption content on) enhanced security features on request on) in direct chip command mode stomisation) on request nisation) public area s for devices that don't have built-in Bluetoot	8) On reque: 9) Without e 10) UID + P/ 11) In prepar	lation of 4100, 4102 st ncryption AC (CSN & Facility Code), r ration		on request	13) EV2/ EV3 supported as 14) From FW V4.05 15) 134.2 kHz only 20) PAC (CSN & Facility Co						

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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MAINTENANCE AND SUPPORT

The EP30CF multi-tech fingerprint reader shall be supported by a comprehensive

support program, which shall include the following:

Regular software updates and security patches.

Technical support via phone and email.

Onsite repair services as needed.

Spare parts availability.

Training for system administrators and end-users.

DOCUMENTATION

The supplier shall provide the following documentation for the EP30CF multi-tech

fingerprint reader:

User manual

Installation guide

Technical specifications

Software release notes

Warranty terms and conditions

Support program details

WARRANTY AND SUPPORT

The EP30CF multi-tech fingerprint reader shall be covered by a minimum of 36-month

manufacturer's warranty that covers defects in materials and workmanship. The

manufacturer shall provide remote technical support and assistance to the installer

and end-user during the installation and operation of the controller.

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Version Number: Version 1.2

#### 7. TRAINING AND DOCUMENTATION

The manufacturer shall provide the following training and documentation for the EP30CF multi-tech fingerprint reader:

- User manuals and technical documentation for installation, configuration, and operation of the controller.
- Online training courses and videos for system administrators and operators.
- · On-site or remote training sessions for system integrators and installers.
- Technical support and assistance for system integrators, installers, and end-users.

\*Note Certifications may vary by region and country. Please consult the manufacturer for specific certifications applicable to your location.