

Explorer Series - EP30CF

Multi-tech Fingerprint Reader

- OSDP Biometric Reader
- Multi-tech RFID & Mobile credential
- Advanced Fingerprint Scanning Technology
- Advanced Cybersecurity Design

Bluetooth™ OSDP™ NFC



OSDP Multi-tech Biometric Reader

The EP30CF reader series is one of the first OSDP multi-tech biometric readers in the market, which fully complied with the OSDP version 2.2 with secured communication encrypted by AES128 standard. EP30CF supports an advanced fingerprint scanning algorithm and over 30 RFID card types and dual RFID frequencies (125kHz and 13.56MHz) and both mobile NFC and Bluetooth (Low Energy).



Multi-tech & Mobile Credential

Supports over 30+ RFID card types in standard package with various optional RFID modules that cover up to over some extra advanced secured RFID protocols, which almost cover most of the end-user requests, enabling high flexibility for multi-card types and mobile credentials situation.

IP65 Water & Dustproof Protection Level

Certified IP65 Water & Dustproof levels represent that the readers can withstand dust, dirt and sand, and are resistant to low-pressure jets (6.33mm) of directed water from any angle with no harmful effects.



Designed for Advanced Security

Secure communication: OSDP (version 2.2 secured communication) over RS485 communication between EP30CF reader and control panel. Complies with AES-128 standards to prevent against interleaving and replay attacks. Complies with AES256 encryption standards between mobile (NFC / Bluetooth) and reader communication.

Advanced Fingerprint Scanning Technology

Armatura's fingerprint scanning technology is one of the most advanced in the industry, it 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 the encryption standard of the algorithm is as high as AES256 standard.



Secured Data Storage: Certified EAL5+ encryption chips to enhance data protection performance to the final grading security level.

Anti-SPA/ DPA/ EMA/ DEMA Attack

Effectively prevents external malicious attacks protects all communications & client's data.

Advanced Security

The Armatura design team is dedicated to ensure the Explorer Series reaches the highest security expectations.



Explorer Series supports 2 mobile identification modes with Armatura mobile Application "Armatura ID".



Card Mode

Present your smartphone to thereader like an access card



Remote Mode

Verify on the reader by clicking a button in the Armatura ID app

Key Features

Mobile Credential Capability

The Armatura ID mobile app offers a consistent user experience across iOS & Android platforms. Opening doors by simply presenting your smartphone to the reader. Supports both NFC and Bluetooth communication methods, extending mobile access functions to almost all smartphone users.



iOS & Android

ELATEC

RFID Systems

Bluetooth

NFC



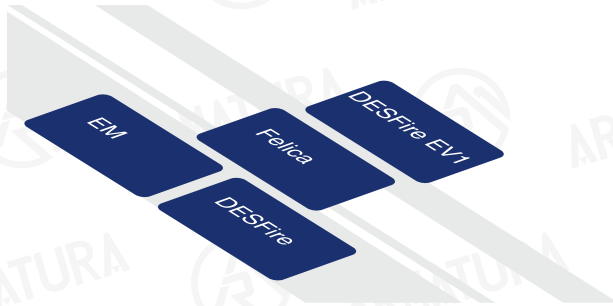
Enhanced Cybersecurity

Open Supervised Device Protocol (OSDP) supports communication between control panel and reader. Guarantees advanced data protection using certified crypto chips with EAL5+ standards. Supports AES128 end-to-end encryption between control panel and reader, ensuring all communications are under secure.



Supports Multi-tech Reading

Armatura RFID Card Module Supporting List.



Dimensions



Specification

Internal Number	EP30CF
Operating Frequency / Standards	125 kHz 13.56 MHz: ISO14443A types A & B, ISO15693 2.4 GHz Bluetooth®
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 EAL5+ 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)	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, RoHs3.0, WEEE
Mounting	Suited for any flat surface mounting
Protection / Resistance	Weather & Dust Proof Protection Rating compliant with IP65
UV Stability	
Housing Material	

Frequency	Classification	Card Module Abbreviation	[DF]	[SFMH]	[NO]	[NP]	[NI]	[NOL]	[NPL]	[NOH]	[NIH]
		Compatible Readers	EP10C/ EP20C/ EP20CK/ EP20CQ/ EP20CKQ/ EP30CF	EP10C/ EP20C/ EP20CK/ EP20CQ/ EP20CKQ/ EP30CF	EP10C	EP10C/ EP20CQ/ EP20CKQ	EP10C/ EP20CQ/ EP20CKQ	EP10C	EP10C/ EP20CQ/ EP20CKQ	EP10C	EP10C/ EP20CQ/ EP20CKQ
13.56MHZ	ISO14443A	LEGIC Advant		√	√1)	√1)	√1)			√1)	√1)
		MIFARE Classic, Mini S50,S70,S50	√4)	√	√	√	√			√	√
		MIFARE Classic EV1	√4)	√2)	√2)	√2)	√2)			√2)	√2)
		MIFARE DESFire Light		√11)	√11)	√11)	√11)			√11)	√11)
		MIFARE DESFire EV1	√4)	√	√	√	√			√	√
		MIFARE DESFire EV2		√11)	√11)	√11)	√11)			√11)	√11)
		MIFARE Plus S, X		√	√	√	√			√	√
		MIFARE Pro X			√3)	√3)	√3)			√3)	√3)
		MIFARE Smart MX		√3)	√3)	√3)	√3)			√3)	√3)
		MIFARE Ultralight		√	√	√	√			√	√
		MIFARE Ultralight C		√	√	√	√			√	√
		MIFARE Ultralight EV1		√2)	√2)	√2)	√2)			√2)	√2)
		NTAG2xx			√	√	√			√	√
		PayPass		√3)	√3)	√3)	√3)			√3)	√3)
		SLE44R35		√3)	√3)	√3)	√3)			√3)	√3)
		SLE66Rxx (my-d move)		√3)	√3)	√3)	√3)			√3)	√3)
		Topaz			√	√	√			√	√
	HID iCLASS SEOS						√20)				√20)
	NFC			√	√	√	√			√	√
	Calypso		√3)	√3)	√3)	√3)			√3)	√3)	
	Calypso Innovatron protocol		√3)	√3)	√3)	√3)			√3)	√3)	
	CEPAS		√3)	√3)	√3)	√3)			√3)	√3)	
	HID iCLASS		√	√1)	√1)	√10)			√1)	√10)	
	CTS		√	√	√	√			√	√10)	
	Moneo		√3)	√3)	√3)	√3)			√3)	√10)	
	Pico Pass		√4)	√4)	√4)	√4)			√4)	√4)	
	SRI4K, SRIX4K		√	√	√	√			√	√	
	SRI512, SRT512		√	√	√	√			√	√	
	ISO18092/ ECMA-340	Sony FeliCa		√5)	√5)	√5)	√5)			√5)	√5)
	ISO15693	EM4x33		√3)	√3)	√3)	√3)			√3)	√3)
		EM4x35		√3)	√3)	√3)	√3)			√3)	√3)
		HID iCLASS		√	√1)	√1)	√10)			√1)	√10)
		HID iCLASS SE/ SR/ Elite		√	√1)	√1)	√10)			√1)	√10)
iCODE SLI			√	√	√	√			√	√10)	
LEGIC Advant			√1)	√1)	√1)	√1)			√1)	√1)	
M24LR16/64				√	√	√			√	√	
MB89R118/119					MT2, MT3, Nano, Palon, Wall, Panel	MT2, MT3, Nano, Palon, Wall, Panel	MT2, MT3, Nano, Palon, Wall, Panel			MT2, MT3, Nano, Palon, Wall, Panel	MT2, MT3, Nano, Palon, Wall, Panel
SRF55Vxx (my-d vicinity)			√3)	√3)	√3)	√3)			√3)	√3)	
Tag-it			√	√	√	√			√	√	
Pico Pass				√4)	√4)	√4)			√4)	√4)	
LEGIC Prime			√								
CPU Card											

ARMATURA

ARMATURA RFID Card Module Supporting List

Frequency	Classification	Card Module Abbreviation	[DF]	[SFMH]	[NO]	[NP]	[NI]	[NOL]	[NPL]	[NOH]	[NIH]		
		Compatible Readers	EP10C/ EP20C/ EP20CK/ EP20CQ/ EP20CKQ/ EP30CF	EP10C/ EP20C/ EP20CK/ EP20CQ/ EP20CKQ/ EP30CF	EP10C	EP10C/ EP20CQ/ EP20CKQ	EP10C/ EP20CQ/ EP20CKQ	EP10C	EP10C/ EP20CQ/ EP20CKQ	EP10C	EP10C/ EP20CQ/ EP20CKQ		
125kHz		AWID			√	√	√	√	√				
		Cardax			√	√	√	√	√				
		CASI-RUSCO			√	√	√	√	√				
		Cotag											
		Deister			√6)	√6)	√6)	√6)	√6)	√6)			
		EM4100, 4102, 4200	√		√7)	√7)	√7)	√7)	√7)	√7)			
		EM4050, 4150, 4450, 4550			√	√	√	√	√	√			
		EM4305			√14)	√14)	√14)	√14)	√14)	√14)			
		FDX-B, EM4105			√15)	√15)	√15)	√15)	√15)	√15)			
		Ultra Prox			√15)	√15)	√15)	√15)	√15)	√15)			
		G-Prox				√6)	√6)	√6)	√6)	√6)			
		HID DuoProx II (1336)				√	√	√	√	√			
		HID ISO Prox II (1386)				√	√	√	√	√			
		HID Micro Prox II (1391)				√	√	√	√	√			
		HID Prox III (1346)				√	√	√	√	√			
		HID Prox				√	√	√	√	√			
		HID Prox II (1326)				√	√	√	√	√			
		HITAG 1, 2, S			√9)	√9)	√9)	√9)	√9)	√9)	√9)		
		ICT			√8)	√8)	√8)	√8)	√8)	√8)	√8)		
		IDTECK			√	√	√	√	√	√	√		
		Indaia											
		ioProx											
		ISONAS			√	√	√	√	√	√	√		
		Keri			√	√	√	√	√	√	√		
		Miro			√	√	√	√	√	√	√		
		Nedap			√6)	√6)	√6)	√6)	√6)	√6)	√6)		
		Nexwatch			√	√	√	√	√	√	√		
		PAC			√8)	√8)	√8)	√8)	√8)	√8)	√8)		
		Pyramid			√	√	√	√	√	√	√		
		Q5			√	√	√	√	√	√	√		
		T5557, T5567, T5577			√	√	√	√	√	√	√		
	TITAN (EM4050)			√	√	√	√	√	√	√			
UNIQUE			√	√	√	√	√	√	√				
ZODIAC			√	√	√	√	√	√	√				
Globally Available				√				√	√	√	√		
Availability		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	√		√	√	√						

- 1) UID only
- 2) Read /write enhanced security features on request
- 3) Read /write in direct chip command mode
- 4) UID only, read/write on request
- 5) UID + read /write public area

- 6) Hash value only
- 7) Only emulation of 4100, 4102
- 8) On request
- 9) Without encryption
- 10) UID+PAC (CSN & Facility Code), read /write on request
- 11) In preparation

- 13) EV2/EV3 supported as part of the EV1 upward compatibility
- 14) From FW V4.05
- 20) PAC (CSN & Facility Code), read /write 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.

To be released

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