OmniAC Series - OmniAC30

All Weather Outdoor Multi-tech Smart Standalone Terminal

- Multi-Biometric technology combining palm and face recognition
- IP66 water & dustproof protection rating
- Supports 125 kHz and 13.56 MHz frequency credentials
- Supports multiple mount types (Single gang/ European/ Asian box)







Modern Aesthetic Design

The build of the OmniAC30 blends a high-quality metal enclosure with a tempered glass panel. The elegant design fits perfectly into any usage scenario and its sleek design brings a practical and reliable experience to users.



IP66 Water & Dustproof Protection Rating

Certified IP66 water & dustproof levels represent that the readers can withstand dust, dirt, sand, and are resistant to violent surf impact or strong winds and



Advanced Security

Secure communication: OSDP(V2.1.7) over RS-485 communication between the OmniAC30 and access control panels. Using AES-128 encryption standards ensures the highest levels of data protection & security.



Supports Multi-Card Types

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



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 recognition methods such as palm and face.
- *QR code scanning for visitors & employees.
- *PIN code option.



Video Intercom (Coming Soon)

The OmniAC30 supports video intercom function suitable for most visitor scenarios. Two-way audio streaming with echo and noise cancellation lets you easily communicate with visitors.



Installation Made Easy

Robust design & form factor makes this device easy to install. PoE option allows for minimal use of cabling and lowers the cost of installation. OmniAC30 supports multiple mount types (Single gang/ European/ Asian box) to meet most scenarios worldwide. Mounting accessories for speed gates are also available.



Industry-Leading Design and User Experience

The OmniAC30 provides an improved user experience with a 5" high resolution touchscreen and intuitive UI design. Using our advanced algorithms, users can get the best verification experience.

Palm recognition distance: 7" - 15.7" (18cm - 40cm) Face recognition distance: 15.7"- 47.2" (40cm - 120cm)



Variable Input Voltage

The device is compatible with 9V-24V input voltages.



Outdoor Rated for Variable Environments

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



Unrivaled Palm and Face Recognition Performance

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

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



Touchless Solution for New standards of the Post-pandemic World

The OmniAC30 meets the needs of the contactless world with features like remote user enrollment, palm, mask detection and face recognition for users with or without masks. Our Palm/ Face/ Card/ QR code recognition technology supports contactless authentication.



Better Images, Faster Recognition

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



Sleep-and-Wake Mode

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





ARMATURA

Dimensions

RMATURA

ARM ATURA

ARMATURA



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		G	General Information	
	Primary Power		9 to 24 VDC (3A min @12V)	
	POE		Supported (IEEE 802.3 at compliant)	
	RS-485 connection		Port 1: RS-485 standard/ OSDP V2.1.7	
	CPU		1.2GHZ Quad Core ARM Processor	
	NPU		2.4 TOPs NPU	
	Memory		8 GB Flash + 1 GB RAM	
	Camera		Face Automatic Exposure Palm Automatic Exposure Face Tracking Palm Tracking WDR HDR 50Hz to 60Hz Automatic Adaption Dual Camera CMOS 2MP (Output image 720P*1280P)	
	Primary Host Communication		Ethernet: 10/ 100 Mbps, auto MDI/ MDIX Complies with TLS 1.2 for end-to-end secure communication channel	
	Ethernet network connection		Port 1:10/ 100 Mbps, auto MDI/ MDIX	
ARMA	Data Protection	RMATURA	Complies with TLS 1.2 for end-to-end secure communication channel (Secured Communication between Standalone Terminal & Server) AES128 (Secured Communication between the Standalone Terminal & OSDP Readers & Access Control Panels)	
DIA	Number of Ports		1*TCP/ IP 1*RS-485 Input: 4ch TTL Inputs Output: 1ch TTL Output 2 relays	
YKI	Inputs		Wiegand in, Button, Sensor in, Aux Input	
	Outputs		Wiegand Output, 2 relays with dry contacts (Lock, Alarm)	



	Normally Open Contact Rating	5A @30Vdc resistive	
	Normally Closed Contact Rating	5A @30Vdc resistive	
	Tamper Switch	Magnetic tamper detection system	
	On-Board Monitor	Size: 2.4", Resolution: 320*240, Touch Screen, TFT	77
	Audio Indicator	Internal speaker with adjustable intensity (Configurable on UI)	
Γ	MIC	Supported	
	Video Phone	Coming Soon	
Γ	User Capacity	50,000	-1.10
M	RFID Card Capacity	50,000 (1:N)/ 50,000 (1:1)	
	Maximum RFID Card Number Length	Wiegand In & Out (up to 64 bits)	
	Face Capacity	10,000 (1:N)/ 50,000 (1:1)	
Γ	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)
M	Face Recognition Distance	Dual Camera Liveness Detection On: 15.7" - 55.1" (40cm - 140cm) Single Camera Liveness Detection On: 15.7" - 78.7" (40cm - 200cm)	RMATU
	Face Recognition Posture Adaptability	Yaw ≤ 30°, Pitch ≤ 30°, Roll ≤45°	
	Face Recognition Accuracy	True Accept Rate (TAR)=99%@, False Accept Rate(FAR)=0.01%	
	Face Recognition Mode	1:1, 1:N	
ľ	Face Recognition Speed	< 100ms (Field Test Result)	
	Face Recognition Liveness Detection	Yes (Infrared-visible light mode, Infrared Light Mode)	
1/	Face Mask Detection	Yes	BWVIA
	Palm Recognition Distance	Liveness Detection On: 7" -15.7" (18cm - 40cm)	
Γ	Palm Recognition Posture Adaptability	Yaw ≤ 45°, Pitch ≤ 30°, Roll ≤ 90°, Bend ≤ 30°	
	Palm Recognition Accuracy	True Accept Rate(TAR)=98.7%@, False Accept Rate(FAR)=0.01%	
Γ	Palm Recognition Mode	1:1, 1:N	
	Palm Recognition Speed	< 140ms (Field Test Result)	
	Palm Recognition Liveness Detection	Yes (Infrared Light Mode)	KWIII
	Recommend Installation Height	55" (140cm) (Using the plate with tilt angle) 59" (150cm) (Plate with horizontal angle)	
ľ	Transaction Buffer	Records: 1,000,000	
	Access group	99	
	On-Board Access Point Control	1 access point on board	11711
	On-Board Reader Support	1 (OSDP over RS-485) or 1 (Wiegand Input)	RHALL
	Protection / Resistance	Weather & Dust Proof Protection Rating compliant with IP66	



RFID	/ Biometrics Reader Interface	•
Input Voltage	9 to 24 VDC (3A min @12V) (Equal to p	rimary power input)
Maximum Input Current	9 to 24 VDC (3A min @12V) (Equal to p	rimary power input)
RS-485 Protocol	OSDP 2.1.7 Secure Channel, AES-128	
OSDP Mode	9600-115200 bps, OSDP V2.1.7, asynchand1 stop bit.	nronous, half-duplex, 1 start bit, 8 data bits,
Wiegand	Wiegand In & Out (Up to 64 bits)	
Data Inputs	TCP/IP, RS-485, OSDP and Wiegand st Maximum RS-485/ OSDP cable length: Maximum Wiegand cable length: 328ft (500ft (152m)

	Cable Re	equirement	
Power & Relays	Twisted pair,	18 to 16 AWG	
Ethernet	CAT-5, minin	num 330 ft. (100m)	
RS-485 Reader Port	One twisted	D bps, asynchronous, half-duplex, 1 star pair with drain wire and shield, 120 ohn able length: 3937ft (1200m)	
Wiegand Port	20 AWG shie	elded, 328ft. (100m)	
MATURA			

Mechanical					
Dimensions	3.82" W x 1.112" D x 8.23" H (97 x 28.5 x 209mm)				
Weight	29.45oz (835g)				
Mounting	Supports mounting plate installation (Single gang/ European/ Asian box) Supports rots-02 bracket				
Housing Material	Aluminum alloy + Tempered glass				



	Environmental	
Operating & Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)	AS
Operating Humidity	0 - 90%RH (Non-condensing)	ARMAIL
Certification(s)	CE, FCC, RoHS	

	Software Interface
TCP/IP Mode	Ethernet: 10 - 100Base-TX
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	Push Protocol over HTTP, HTTPS
Supported Software	Armatura One Security System

ARMATURA

Processors Classification Compatible Residence Compatible Season Compatible Residence Compatible Resid		ATURA			D Card Module Supporting			
Comparing Headers OmmAC29 & OmmAC29		BWDIA	Card Module Abbreviation	[RNP	1		[RNI]	
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SOUTH SOUT		 	LEGIC Advant	- 11D		1D		10 /
MIFARE DESPISE Ught 1/40			MIFARE Classic, Mini S50,S70,S50	√4)	ARM	VI OKW		N/w
MinARE DESPIRE EVT Vis V		'	MIFARE Classic EV1	√4)	122.2		√4)	
MIFAIR DESPIRE EVE Vis V		'	MIFARE DESFire Light	√4)				
MIFAIR DESPINE EV2 Vis V		'	MIFARE DESFire EV1	√4)			√4)	
MIFARE Pina S, X Vis		1						
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ISO14443A MIRABE Birate MX Vis		'				ARMR		VISME)
NFAE Ulralight C		'				1717		717
MIFARE Ultralight EV \(\frac{4}{4} \) \		ISO14443A						
MIFARE Utralight EV1 Ws Ws Ws		100						
NFC, NTAGEXs)		1		·				_ ^
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NFC (HCE Mode, works with Armatura ID)		1						
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	TURA	Card Module Abbreviation		[RNP]	Supporting List	[RNI]	
requency	Classification	Compatible Readers	Om	niAC20 & OmniAC30		OmniAC20 & OmniAC30	YKI
		AWID					
		Cardax			_ 1D A		
		CASI-RUSCO	~14 h	\checkmark	ALL ATURM	√	
		Cotag Deister	Kulm		White and the second	Khin	
		EM4100, 4102, 4200		√		√	
		EM4050, 4150, 4450, 4550					
		EM4305	- 10				
	LILATI	FDX-B, EM4105	A ATUTA A				
	SMN_{II}	Ultra Prox	MINI	VKWW		KWW.	
	11/20	G-Prox		131.	R	11.	71.
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		HID ISO Prox II (1386)		√1)		√1)	
		HID Micro Prox II (1391)		√1)		√1)	
		HID Prox III (1346)	- 15	√1)	ATI IKA	√1)	TIKA
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		Pyramid	717.		71.2.	7171	
		Q5					
		T5557, T5567, T5577					
		TITAN (EM4050)					
	TALL	UNIQUE	LATUKA		K IA	TIKA	
	DWVI	ZODIAC	W VI O.				
		Globally Available	31	Υ		Y	71/7
	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	71100		TURA		

- 1) UID only
- 2) Read /write enhanced security features on request
- 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



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