OmniAC Series - OmniAC20

All Weather Outdoor Multi-tech Smart Standalone Terminal

- Multi-Biometric technology combining palm and face recognition
- 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 devices 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



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.



IP66 Water & Dustproof Protection Rating

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



Industry-Leading Design and User Experience

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



Advanced Security

Secure communication: OSDP(V2.1.7) over RS-485 communication between the OmniAC20 and access control panels. Using AES-128 encryption standards ensures the highest levels of data protection &



Variable Input Voltage

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



Supports Multi-Card Types

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



Outdoor Rated for Variable Environments

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



Multi-Factor Authentication Capability

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

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



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.



Video Intercom (Coming Soon)

The OmniAC20 supports video intercom function suitable for most visitor scenarios. Two-way audio streaming with echo and noise cancellation lets you easily communicate with visitors.



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 recognition for users with or without masks. Our Palm/ Face/ Card/ QR code recognition technology supports contactless authentication.



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.



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.





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Dimensions

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	General I	nformation		
Primary Power	9 to 24 VD	C (3A min @12V)		
RS-485 connection	Port 1: RS-	-485 standard / OSDP V2.1.7		
CPU	1.2 GHZ Q	uad Core ARM Processor		
NPU	2.4 TOPs N	NPU AMATUR		
Memory	8 GB Flash	ı + 1 GB RAM		
Camera	Palm Autor Face Track Palm Track WDR HDR 50Hz to 60 Dual Came	king Hz Automatic Adaption		
Primary Host Communication		0/ 100 Mbps, auto MDI/ MDIX with TLS 1.2 for end-to-end secure	communication channel	
Ethernet network connection	Port 1:10/	100 Mbps, auto MDI/ MDIX		
Data Protection	(Secured C AES128 (S	with TLS 1.2 for end-to-end secure Communication between Standalo Secured Communication between Ider & Access Control Panel)	ne Terminal & Server)	
Number of Ports	1*TCP/IP 1*RS-485 Input: 4ch Output: 1ch 3 relays	TTL Inputs h TTL Output		



	Normally Open Contact Rating	5A @30Vdc resistive
Γ	Normally Closed Contact Rating	5A @30Vdc resistive
	Tamper Switch	Magnetic tamper detection system
Γ	On-Board Monitor	Size: 2.4", Resolution: 320*240, Touch Screen, TFT
	Audio Indicator	Internal speaker with adjustable intensity (Configurable on UI)
Γ	MIC ARMANUATION OF THE PROPERTY OF THE PROPERT	Supported
	Video Phone	Coming Soon
Γ	User Capacity	50,000
	RFID Card Capacity	50,000 (1:N)/ 50,000 (1:1)
Г	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)
	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
	Face Recognition Speed	< 100ms (Field Test Result)
	Face Recognition Liveness Detection	Yes (Infrared-visible light mode, Infrared Light Mode)
M	Face Mask Detection	Yes
	Palm Recognition Distance	Liveness Detection On: 7" -15.7" (18cm - 40cm)
	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%
	Palm Recognition Mode	1:1, 1:N
	Palm Recognition Speed	< 140ms (Field Test Result)
V	Palm Recognition Liveness Detection	Yes (Infrared Light Mode)
	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



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

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	Cable Requirement	
Power & Relays	Twisted pair, 18 to 16 AWG	.o.l
Ethernet	CAT-5, minimum 330 ft. (100m)	
RS-485 Reader Port	9600-115200 bps, asynchronous, half-d One twisted pair with drain wire and shi Maximum cable length: 3937ft (1200m)	
Wiegand Port	20 AWG shielded ,328ft. (100m)	

171.			Mechanical		
	Dimensions	A	2.3" W x 0.77" D x 7.3" H (58.4)	7 x 19.5x 184.97mm)	2 A
	Weight		11.53oz (327g)		
	Mounting		Suited for mullion-mount door in Supports rots-02 bracket	nstallations or any flat surface moun	ting
ARI	Housing Material	LRMAIO	Aluminum alloy + Tempered gla	ass	ARMAIC





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

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Programmy Classification Compatible Readers ChesisCD9 A ChesisCD9 A ChesisCD9 ChesisCD9 A Ch		TURA			D Card Module Supporting			
	N	SWD1	Card Module Abbreviation	[RNP	1		[RNI]	
### MITARIC Classics, Mini 940 9	Frequency	Classification	Compatible Readers	OmniAC20 & C	OmniAC30		OmniAC20 & OmniAC30	
10 10 10 10 10 10 10 10			LEGIC Advant	-110		10		101
Ministrate Destrie Light 1/40 1	<u>,</u>		MIFARE Classic, Mini S50,S70,S50	√4)	ARV	VIOL.		71/14
### A		ı	MIFARE Classic EV1	√4)	120.00		√4)	
MIFARE DESTREEVE Vis		1	MIFARE DESFire Light	√4)				
MIPARE DESTREEVE Vol. Vo			MIFARE DESFire EV1	√4)			√4)	
MIRARE Plus S, X 40 40 40		1						
MIRARE For X Vision Visi		1				- NA N		- 11 1
MIRARE Smart MX		1				VKAR		VISIALE I
ISO14443A		1		·		3177		1717
MIFARE Unralight C vis v		ISO14443A						
MIFARE Ultralight EV1		100						
NFC (NTAGEXC)		1						
PayPass SLE46R35 SLE66Rxx (my-d move) Topaz		1			A	THE A	V4)	AR A
SLE44R3S SLE66Rbx (my-d move) Topez HID (CLASS SECOS Mone) Topez HID (CLASS SECOS HID (CLASS Mone) Topez		1		OMATON	101	KI UK	TAMO:	Olym-
SLE6Rbx (my-d move) Topaz		1		Klalko.	- Kr	1 2 -	Khha.	
Topaz		1						
HID ICLASS SEOS V20) NFC (HDE Mode, works with Armatura ID) Calysso Calyso		1						
NFC (HCE Mode, works with Armatura ID)		1						
Table Calypso Calyps		1		- 1D A	A		√20)	
Calypso Innovatron protocol CEPAS HID ICLASS ISO14443B ISO14443B ISO16092 ECMA-340 Sony FeliCa EM4x33 EM4x35 HID ICLASS HID ICLASS ISO16092 ISO18092 ISO18093 ISO18				AATUKM	_MATURM	-34 N		A 4 4 c
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No.	≥							
No.	56							
No.	က်	ISO14443B	CTS					
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SRI512, SRT512				VKim			DL	
ISO18092/ ECMA-340 Sony FeliCa								
EM4x33 EM4x35 HID iCLASS HID iCLASS SE/ SR/ Elite iCODE SLI LEGIC Advant M24LR16/64 MB89R118/119 SRF55Vxx (my-d vicinity) Tag-it		ISO18092/ ECMA-340		√ 1)			√1)	
EM4x35			FM4×33					
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LEGIC Prime	The second second	171		ATTING TO SERVICE AND ADDRESS OF THE PARTY O	" ALLEAN	- SVA		ALLO

	TURA	Card Module Abbreviation	ARMATURA RFID Card Module Supporting List [RNP] [RNI]					
Frequency Classification		Compatible Readers	OmniAC20 & OmniAC30			OmniAC20 & OmniAC30		
		AWID						
		Cardax		- 1D A		iD A		10 /
		CASI-RUSCO	2111	√	J TA No.		√	
		Cotag Deister	Kum		Kalar		Kalini	
		EM4100, 4102, 4200		√			\checkmark	
		EM4050, 4150, 4450, 4550						
		EM4305	- 10 /		10 /			
	LILATI	FDX-B, EM4105	MATURA		1Kw			
	SMN_{II}	Ultra Prox	MIN	VKM121		YKWW		
	11/20	G-Prox		1717.		131.		171,
		HID DuoProx II (1336)		√1)			√1)	
		HID ISO Prox II (1386)		√1)			√1)	
		HID Micro Prox II (1391)		√1)			√1)	
		HID Prox III (1346)	. 15	√1)	171	IK A	√1)	AKB
		HID Prox	A DMA	√1)	A DN AIL) (X	√1)	3111
		HID Prox II (1326)	A A A	√1)			√1)	
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꾸		IDTECK						
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		Keri						
		Miro						
		Nedap		710		101		10
		Nexwatch		FURIA	171	IKIA	171	AK IA
		PAC	ADMA		ADMIAIS			
		Pyramid	717.		7/12.		71.	
		Q5						
		T5557, T5567, T5577						
		TITAN (EM4050)						
	TALL	UNIQUE	LITTIKA	174	IKIA		KA	
	DWVI	ZODIAC	WVI O.					
		Globally Available	21	Y		William.	Υ	711
	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	7110		JTANG			

- 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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