

Omni Series - Omni20

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 & Mounting Options

The devices slim design with its backplate suits most architectural and interior designs. The Omni20 supports multiple mount types to meet most scenarios worldwide. Mounting accessories for speedgates are also available.



Modern Aesthetic Design

The build of the Omni20 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 Omni20 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" (18cm - 40cm) Face authentication distance range: 15.7"-47.2" (40cm - 120cm)



Advanced Security

Secure communication: OSDP(V2.2) over RS485 communication between the Omni20 and access control panels. Using AES-128 encryption standards ensures the highest levels of data protection & security



Variable Input Voltage

Unrivaled Palm

The device is compatible with 12V 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. -20°C to 60°C/ -4°F - 140°F 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
authentication methods such as palm and face.
*QR code scanning for visitors & employees.



and Face Authentication Performance ARMATURA's Multi-Biometric technology

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

Industry-leading combination of visible and NIR infrared authentication technology provides exceptional authentication accuracy and the industry's top-notch anti-spoofing protection. ISO 19795-2 standard.



Video Intercom (Coming Soon)

The Omni20 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 Omni20 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.



Installation Made Easy

*PIN code option.

Slim design & form factor makes this device easy to install. PoE option allows for minimal use of cabling and lowers the cost of installation. The Omni20 is suited for mullion-mount door installations or any flat surface mounting. Mounting accessories for speedgates are also available.



Better Images, Faster Authentication

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 plam/ face AE function enables the device to obtain higher quality images which improves the authentication accuracy.





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ARM ATURA

Dimensions

RMATURA

ARM ATURA

ARMATURA



	MTURA	ARMATURA	ARMATURA	
		General I	nformation	
	Primary Power	12 VDC (3A	A min @12V)	
	RS485 connection	Port 1: RS4	85 standard / OSDP V2.1.7	
	CPU	1.2 GHZ Qu	uard Core ARM Processor	
. 51	NPU	2.4 TOPS N	NPU	RA
	Memory	8 GB Flash	+ 1 GB RAM	
, DV	Camera	Palm Auton Face trackir Palm trackir WDR HDR 50Hz to 60H Dual Came	ng Hz Automatic Adaption	R.A.
	Primary Host Communication		0/ 100 Mbps, auto MDI/ MDIX with TLS 1.2 for end to end secure communication	n channel
	Ethernet network connection	Port 1:10/ 1	00 Mbps, auto MDI/ MDIX	
\D\	Data Protection	(Secured C AES128 (Se	oith TLS 1.2 for end to end secure communication ommunication between Standalone Terminal & Secured Communication between Standalone Terder & Access Control Panel)	Server)
171.	Number of Ports	1*TCP/IP 1*RS-485 Input: 4ch T Output: 1ch 3 relays	TL Inputs TTL Output	
	Inputs	Wiegand in	, Button, Sensor in, Aux Input	
NON	Outputs	3 relays wit	h dry contacts, Wiegand Output, Lock, Alarm, Be	ell



	Normally Open Contact Rating	5A @30Vdc resistive
	Normally Closed Contact Rating	5A @30Vdc resistive
M	Tamper Switch	Magnetic tamper detection system
	On-Board Monitor	Size: 2.4", Resolution: 320*240, Touch Monitor, TFT
	Audio Indicator	Internal speaker with adjustable intensity (Configurable on UI)
	MIC NO.	Supported
	User Capacity	50,000
Г	RFID Card Capacity	50,000 (1:N)/ 50,000 (1:1)
M	Maximum RFID Card Number Length	Wiegand In & Out (up to 64 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	Dual Camera Liveness Detection On: 15.7" - 55.1" (40cm - 140cm) Single Camera Liveness Detection On: 15.7" - 78.7" (40cm - 200cm)
N	Palm Authentication Distance and Angle Tolerance	7" - 15.7" (18cm - 40cm) / Pitch +/- 35, Yaw +/- 60, Roll +/-35, Blend +/-30
	Face Authentication Speed	100ms (Field Test Result)
	Live Face Detection (Anti-Spoofing)	Supported
	Recommend Installation Height:	Recommended Installation Height: 55" (140cm) (Using the plate with tilt angle) 59" (150cm) (Plate with horizontal angle)
	Palm authentication Speed	140ms (Field Test Result)
	Transaction Buffer	Records: 1,000,000
	Access group	99 MATURA
	On-Board Access Point Control	1 access point on board
	On-Board Reader Support	1 (OSDP over RS485) or 1 (Wiegand Input)
. 1	Protection / Resistance	Weather & Dust Proof Protection Rating compliant with IP66
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(35cm)	RFID / Biometrics Reader Interface	e
Input Voltage	12 VDC (3A min @12V) (Equal to prima	ary power input)
Maximum Input Current	12 VDC (3A min @12V) (Equal to prima	ary power input)
RS-485 Protocol	OSDP 2.1.7 Secure Channel, AES-128	144
OSDP Mode	9600-115200 bps, OSDP V2.1.7, asyncleand 1 stop bit.	chronous, half-duplex, 1 start bit, 8 data bits,
Wiegand	Wiegand In & Out (Up to 64 bits)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Data Inputs	TCP/IP, RS485, OSDP and Wiegand sta Maximum RS485/ OSDP cable length: 5 Maximium Wiegand cable length: 328ft	500ft (152m)

LOWATURA	COMMURA	LOWATURA
Man.	Cable Requirement	William
Power & Relays	One twisted pair, 18 to 16 AWG	امد
Ethernet	CAT-5, minimum 330 ft. (100m)	TUKM ARMATI
RS-485 Reader Port		-duplex, 1 start bit, 8 data bits, and 1 stop bit. nield, 120 ohm impedance, 22-18 AWG,
Wiegand Port	20 AWG shielded ,328ft. (100m)	

Mechanical			
Dimensions	2.3" W x 0.77" D :	x 7.3" H (58.47 x 19.5x 184.97mm)	TIRA
Weight	327g		Winger
Mounting	Suited for mullion Supports rots-02	n-mount door installations or any flat surfact bracket	ce mounting
Housing Material	Aluminium alloy +	- Tempered glass	ARMATO





132.50	Environmental	
Operating & Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)	.71
Operating Humidity	10 - 95% RH (Non-condensing)	VKWVIA
Certification(s)	CE, FCC, RoHS, UL, UL294, IEC EN/BS EN 60839	Grade 4

Man	Software Interface	Man	
TCP/IP Mode	Ethernet: 10 - 100Base-TX		
TCP/IP Protocol	VLAN, SSH, HTTP, IPv4, DNS	Kiy	
TCP/IP Encryption	Complied up to TLS1.2 end to end secure of	communication channel	1711
TCP/IP Communication	Push Protocol over HTTP, HTTPS and BES	ST Protocol over websock	
Supported Software	Armatura One Security System, Cielo365	ARMATURA	

ARMATURA

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