### **ARCHITECTURAUL & ENGINEERING SYSTEM SPECIFICATIONS**

FT10CMQ All-weather Multi-Tech **Smart Multimodal Biometric Terminal** 



















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Version 1.0



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#### Section 1

#### 1. Purpose

The purpose of this architectural and engineering system specifications (A&E) document are intended to provide a comprehensive guide for the design, implementation, and installation of the FT10CMQ, an all-weather multi-tech smart multimodal biometric terminal.

#### 2. Goals and Objectives

The FT10CMQ, an all-weather multi-tech smart multimodal biometric terminal's A&E document aims to achieve the following goals and objectives:

- Provide a highly secure and reliable multi-tech multimodal biometric terminal, with touchless palm and face authentication.
- Ensure scalability and flexibility to accommodate varying user and system requirements.
- Meet or exceed relevant industry standards and regulations.
- Provide a clear and detailed specifications for the design, supply, installation, and commissioning of the terminal.

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3. Key Features and Requirements

The FT10CMQ, an all-weather multi-tech smart multimodal biometric terminal shall have

the following key features and requirements:

Multi-factor authentication with touchless palm and face authentication, mobile

credentials, physical cards and QR code.

Adopt Armatura's multi-biometric technology which combines touchless palm and

face authentication with the unique deep learning algorithm and integrates with

advanced biometric methods.

· Combines visible and NIR infrared authentication technology to ensure accuracy

with anti-spoofing protection for palm and face authentication.

· Support standard SIP V2.0 for video intercom function, ideal for visitor scenarios.

Includes two-way audio streaming with echo and noise cancellation.

· Features a Sleep-and-Wake mode, with a flashing breath light in sleep mode and a

highlighted white ring light in wake mode. This reduces unnecessary heat loss,

protecting the machine and enhancing long-term performance.

· Supports multi-card types in a standard package with an array of optional RFID

modules that cover up to over 10 extra advanced secured RFID protocols.

Supports 125 kHz and 13.56 MHz frequency credentials and support various card

types including EM, MIFARE, DESFire, FeliCa and HID Prox/ iCLASS/ Seos.

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4. Design and Implementation Constraints

The design and implementation of the FT10 CMQ, all-weather multi-tech smart multimodal

biometric terminal 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 ensure high-level cybersecurity to protect against unauthorized

access or data breaches.

Existing Standards and Regulations

The FT10CMQ, an all-weather multi-tech smart multimodal biometric terminal shall comply

with the following standards and regulations:

FCC Standards

CE Standards

· RoHS Standards

UL294 (Coming Soon)

•

6. Submittals

The following submittals shall be provided by the manufacturer.

Product datasheets

Installation and operation manuals

Technical support contact information warranty information

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#### 7. Qualifications

The manufacturer shall have the following qualifications:

- · ISO27701, ISO27001, ISO9001, ISO14001 certifications.
- Minimum of 5 years' experience in producing access control equipment.

### 8. Warranty

The manufacturer shall provide a limited 36-month warranty for the all-weather multi-tech smart multimodal biometric terminal to be free of defects in material and workmanship.

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Section 2

1. Key Features and Requirements

1.1 Key Features

i. Multi-factor authentication capability that offers a range of credential options,

including touchless palm and face authentication, mobile credentials, physical cards

and QR code.

ii. Adopt Armatura's multi-biometric technology which combines touchless palm and

face authentication with the unique deep learning algorithm.

iii. Integrates advanced biometric methods, including touchless palm and face

authentication, along with QR code scanning for both visitors and employees.

iv. Combines visible and NIR infrared authentication technology to ensure accuracy

with anti-spoofing protection.

v. Support standard SIP V2.0 for video intercom function, ideal for visitor scenarios.

Includes two-way audio streaming with echo and noise cancellation.

vi. Features a Sleep-and-Wake mode, with a breath light flashing in sleep mode and a

highlighted white ring light in wake mode. This reduces unnecessary heat loss,

protecting the machine and enhancing long-term performance.

vii. Supports multi-card types in a standard package with an array of optional RFID

modules that cover up to over 10 extra advanced secured RFID protocols.

viii. Integrates a variety of technologies, including EM, MIFARE, DESFire, FeliCa and

HID Prox/ iCLASS/ Seos.

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ix. Support operating frequency credentials including 125kHz; 13.56MHz: ISO14443

types A & B, JIS X6319, ISO15693 and 2.4GHz Bluetooth.

x. Support a maximum transaction record of 1,000,000 and support user capacity up

to 50,000. With a maximum RFID card capacity of 50,000; face capacity maximum

at 10,000 (1:N)/ 50,000 (1:1); palm capacity maximum at 5,000 (1:N)/ 20,000 (1:1).

xi. The RFID reading distance for 13.56MHz & 125kHz operating frequency credentials

is up to 1.96" (50mm), depends on environment and transponder.

xii. The dual camera liveness detection for face authentication distance ranges from

15.7" to 55.1" (400mm to 1,400mm). While the single camera liveness detection for

face authentication ranges from 15.7" to 78.7" (400mm to 2,000mm).

xiii. Face authentication supports posture adaptability with Yaw ≤ 30°, Pitch ≤ 30° and

Roll ≤45°.

xiv. The true accept rate (TAR) of face authentication equals to 99%. The false accept

rate (FAR) is at 0.01%.

xv. The face authentication mode include 1:N and 1:1.

xvi. The speed of face authentication is less than 300ms (field test result).

xvii. Infrared-visible light mode and the infrared light mode supports face authentication

liveness detection.

xviii. Support face mask detection.

xix. The liveness detection for palm authentication distance ranges from 7" to 15.7"

(180mm to 400mm).

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- xx. Palm authentication supports posture adaptability with Yaw ≤ 45°, Pitch ≤ 30°, Roll ≤ 90°, Bend ≤ 30°.
- xxi. The true accept rate (TAR) for palm authentication equals 98.7%. False accept rate (FAR) for palm authentication is 0.01%.
- xxii. The palm authentication mode includes 1:N and 1:1.
- xxiii. The speed of palm authentication is less than 140ms (field test result).
- xxiv. Supports infrared light mode for the palm authentication liveness detection.
- xxv. Equipped with a QR code scanner with the QR code scanning pattern consist of a 720x1280 pixel array of area image, a scan angle of 37.9° horizontally and 62.9° vertically.
- xxvi. Compatible with Armatura ID QR code and static QR code (customizable).
- to 2.05" (12.7mm 52.07mm), whereas the BioCode ranges from 0.59" to 1.26" (15mm 32mm).
- xxviii. Recommend installation height is at 55" (1400mm) using the plate with tilt angle.
- xxix. Recommend installation height is at 59" (1500mm) using the plate with horizontal angle.
- xxx. Supports palm and face tracking, which can more intelligently capture the user's biometrics and prevent the user's biometrics from continuing to be compared after verifying.

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- xxxi. Equipped with the palm and face automatic exposure function which enables the capture of higher quality images, thereby enhancing the accuracy of authentication.
- xxxii. The RFID and biometrics reader interface output voltage ranges from 12V to 24V (equal to primary power input). With a maximum output current at 0.8A.
- xxxiii. The RFID and biometrics reader interface supports RS-485 protocol, OSDP (V2.2) secure channel and adopts AES-128 encryption for enhanced security.
- xxxiv. The RFID and biometrics reader interface supports OSDP mode with 9600-115200 bps, OSDP V2.2, asynchronous, half-duplex, 1 start bit, 8 data bits, and1 stop bit.
- xxxv. The RFID and biometrics reader interface supports Wiegand In and Wiegand Out (up to 64 bits).
- xxxvi. The RFID and biometrics reader interface is compatible with TCP/IP, RS-485, OSDP and Wiegand standards data inputs.
- xxxvii. Support primary power at DC 12V@3A-24V@1.5A ±10%.
- xxxviii. Support Power-over-Ethernet (PoE) and complies with IEEE 802.3at standards.
- xxxix. Support RS-485 standard/ OSDP Version 2.2 connection.
  - xl. Equipped with 1.2GHz Quad core ARM processor with 2.4 TOPs NPU; 2 GB RAM and 16 GB Flash memory.
  - xli. Featuring the CMOS sensors with 2MP resolution, IR technology with a global shutter CMOS at 1.3MP resolution, IR-CUT functionality with 2MP resolution, and a resolution of 720 x 960 pixels.

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xlii. Connect to the Ethernet network using 10 Base-T or 100 Base-TX speeds

automatically, with its auto MDI/MDIX feature.

xliii. Compliant with TLS 1.2 for end-to-end secure communication channel (secured

communication between the terminal and server) (Standalone Mode). Adopt AES-

128 encryption (secure communication between the terminal and OSDP readers)

(Standalone Mode).

xliv. Use certified EAL6+ encryption chips for advanced data protection.

xlv. FT10CMQ Inputs include Wiegand, Button, Sensor and Auxiliary inputs.

xlvi. FT10CMQ Outputs include Wiegand, Lock Relay, Alarm Relay (Relay via dry

contacts), and Bell Relay (Relay via dry contacts).

xlvii. Normally open contact rating is 2A @ 30Vdc resistive.

xlviii. Normally closed contact rating is 2A @ 30Vdc resistive.

xlix. A magnetic tamper detection system along with a tamper switch.

I. Equipped with an internal speaker with adjustable intensity and support a

microphone.

li. Support a maximum of 99 access group. And support 1 access point on board for

access point control.

lii. Support 1 OSDP over RS-485 reader and support 1 Wiegand Input reader. The

software interface for TCP/IP mode is 10 Base-T / 100 Base-T and Auto MDI / MDIX.

The software interface for TCP/IP protocol includes VLAN, SSH, HTTP, IPv4 and

DNS.

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liii. The software interface for TCP/IP encryption is complied up to TLS1.2 end to end

secure communication channel.

liv. The software interface for TCP/IP communication includes Push protocol over

HTTP and HTTPS.

Iv. Support Armatura One Security system.

lvi. Attain IP66 protection rating, providing waterproof and dustproof, fully operate in

extreme weather conditions, including cold winters, heavy rains, and dry/hot

summers.

lvii. Attain IK07 certification for vandal-proof structure.

Iviii. The cable requirement for power is 16AWG or 18AWG. (Do not extend the length of

power cable when using the power adapter). Twisted pair relays require cables with

a gauge between 18 and 16 AWG.

lix. The Ethernet cable requirement (CAT-5E) requires a wire diameter (24AWG), with a

maximum length of 330ft. (100m).

lx. The Power-over-Ethernet (PoE) cable requirement requires a wire diameter

(23AWG), with a maximum length of 330ft. (100m).

lxi. The cable requirement of the RS-485 reader port is 9600-115200 bps, asynchronous

communication, half-duplex mode, 1 start bit, 8 data bits, and 1 stop bit. One twisted

pair with drain wire and shield with a resistance of 120 ohm, and a gauge of 22-18

AWG. The cable length can extend up to 1970 ft. (600m).

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- lxii. The cable requirement of the Wiegand port is 20AWG shielded, cable length is up to 164ft. (60m).
- Ixiii. The dimensions of FT10CMQ has a length of 5.71", a width of 2.76", and a height of 1.25"; which is equivalent to 145mm in length, 70mm in width and a height of 3.18mm.
- lxiv. The weight of the FT10CMQ is 15.85oz, which is around 449.5g.
- lxv. It is suited for mullion-mount door installations or any flat surface mounting.
- lxvi. The housing material for FT10CMQ is aluminum alloy and tempered glass.
- lxvii. Operating temperature ranges from -4°F to 131°F (-20°C to 55°C).
- lxviii. Storage temperature ranges from -13°F to 140°F (-25°C to 60°C).
- lxix. Operating humidity from 0% to 90% RH (non-condensing).
- lxx. It is compliant with CE, FCC, RoHS 3.0, and UL294 (coming soon) standards.



### 2. Technical Specifications



	General Information	
Primary Power	DC 12V@3A-24V@1.5A±10%	
Operating Frequency/ Standards:	125KHZ; 13.56MHZ: ISO14443 types A&B, JIS X6319, ISO15693 2.4GHZ Bluetooth	
POE	Supported (IEEE 802.3 at compliant)	
RS-485 connection	RS-485 standard/ OSDP V2.2	
CPU	1.2GHz Quad Core ARM Processor	
NPU	2.4 TOPS NPU	
Memory	2 GB RAM + 16 GB Flash	
Camera	CMOS, 2 MP resolution IR: Global shutter CMOS, 1.3 MP resolution IR-CUT: CMOS, 2 MP resolution Resolution: 720 960 pixels	
Ethernet network connection	10 Base-T/ 100 Base-TX, Auto MDV MDIX	
Data Protection	Compiles with TLS 1.2 for end-to-end secure communication channel (Secured Communication between the FT10 & Server) (Standalone N AES128 (Secured Communication between the FT10 & OS DP Reade	lode)
Number of Ports	1 <sup>4</sup> TCP/ IP 1 <sup>4</sup> RS-485 4ch TTL inputs 1ch TTL Output 1 Mechanical Relays & 2 Photorelay	
Inputs	Wiegand, Button, Sensor, Aux	
Outputs	Wiegand, Lock Relay, Alarm Relay (Relay via dry contacts), Bell Relay	y(Relay via dry contacts)
Normally Open Contact Rating	2A @30Vdc resistive	
Normally Closed Contact Rating	2A @3oVdc resistive	
Tamper Switch	Magnetic tamper detection system	

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Audio Indicator	Internal speaker with adjustable intensity
MIC	Supported
Video Infercom	Support Standard SIP V2.0
User Capacity	50,000
RFID Card Capacity	50,000
Maximum Wiegand Bits	Wiegand in & Out (up to e+ bits)
Face Capacity	10,000 (1N)/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" (400mm - 1400mm) Single Camera Liveness Detection On: 15.7" - 78.7" (400mm - 2000mm)
Face Authentication Posture Adaptability	Yaw ≤ 30°, Ptich ≤ 30°, Roll ≤40°
Face Authentication Accuracy	True Accept Rate (TAR)=89%, False Accept Rate(FAR)=0.01%
Face Authentication Mode	13,1N
Face Authentication Speed	<300ms (Field Test Result)
Face Authentication Liveness Detection	Yes (Infrared-visible light mode, Infrared Light Mode)
Face Mask Detection	Yes
Palm Authentication Distance	Liveness Detection On: 7* -15.7* (180mm - 400mm)
Palm Authentication Posture Adaptability	Yaw ≤ 45°, Přích ≤ 30°, Roll ≤ 90°, Bend ≤ 30°
Palm Authentication Accuracy	True Accept Rate(TAR)=98.7%, False Accept Rate(FAR)=0.01%
Palm Authentication Mode	13, 1N
Palm Authentication Speed	<14oms (Field Test Result)
Paim Authentication Liveness Detection	Yes (Intraired Light Mode)
OR Code Detection	OR Code Scanner: Supported OR Code Scanning Pattern: Area Image (720*1280 pixel array) OR Code Scan Angle: Hortzontal: 37.9°/ Vertical: 62.9° OR Code Capability: OR Code (Armatura IB); Static OR (customizable) OR Code Scanning Performance*: Armatura ID OR Code: 0.5°-2.05" (12.7mm - 52.07mm); BioCode: 0.59°-1.28" (15mm - 32mm)
Recommend Installation Height	55" (1400mm) (Using the plate with till angle) 56" (1500mm) (Plate with horizontal angle)
Transaction Buffer	Records: 1,000,000
Access group	89
Access Point Control	1 access point on board
Reader Support	1 (OSDP over RS-485) or 1 (Wiegand Input)
Protection / Resistance	Weather & Dust Proof Protection Rating compliant with IPee Reinforced Vandal-proof Structure IKo7 certified

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RFID / Biometrics Reader Interface						
Output Voltage	12V-24V (Equal to primary power input)					
Maximum Output Current	0.8A					
RS-485 Protocol	OSDP V2.2 Secure Channel, AES-128					
OSDP Mode	9600-115200 bps, OSDP V2.2, asynchronous, half-duplex, 1 start bit, 8 data bits, and1 stop bit.					
Wegand	Wiegand In & Out (Up to 64 bits)					
Data Inputs	TCP/IP, RS-485, CSDP and Wegand standards supported.					

Power	16AWG or 18AWG (DO NOT extend the length of power cable when using the power adapted
Relays	Twisted pair, 18 to 16 AWG
Ethernet	CAT-SE, Wire diameter (24AWG), maximum 330 ft. (100m) P0E : CAT-6A, Wire diameter (23AWG), maximum 330 ft. (100m)
RS-485 Reader Port	9600-115200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit. One twisted pair with drain wire and shield, 120 ohm resistance, 22-18 AWG, Maximum cable length: 1970 ft. (600m)
Wiegand Port	20 AWG shielded, 164 ft. (60m)

Mechanical Mechanical					
Dimensions	5.71" × 2.76" × 1.25" (145mm*70mm*31.8mm)				
Weight	15.85oz (449.5g)				
Mounting	Suited for mullion-mount door installations or any flat surface mounting				
Housing Material	Aluminum alloy + Tempered glass				

	Environmental	
Operating Temperature	-4°F -131°F (-20°C to 55°C)	
Storage Temperature	-13°F -140°F (-25°C to 60°C)	
Operating Humidity	0 - 90%RH (Non-condensing)	
Certification(s)	CE, FCC, RoHS, UL294 (Coming Soon)	

	Software Interface
TCP/IP Mode	10 Base-T/ 100 Base-TX, Auto MDI/ MDIX
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 3. Armatura Card Module Support List

ARM	ATURA		ARMATURA RFID Card Mod	lule Supporting List	ArmaSec-03012		
Frequency	Card Module Abbreviation		(FINP)		[FINI]		
	Classification	Competible Readers	OmniAC20, OmniAC30, PT10, EP20CQ, EP20CKQ, E	PSCP Oms/	CZO, OmNACGO, PTIO, EPSOCIQ, EPSOCIO, EPSOCIP		
		LEGIC Advant		-x123.h	-10 h		
		MIFARE Classic, Mini \$50,870,850	10411	ARY MU	40		
		MIFARE Classic EV1	140	63.00	A)		
		MIFARE DESFIRE Light	via)		sht)		
		MIFARE DESFIN EV1	Val		40		
		MIFARE DESFIN EV2	√4)	ram k	40		
		MIFARE Plus 8, X	-40	113035	vA()		
		MIFARE Pro X	v4)	3.50	W)		
		MIFARE Smart MX	de	100	vA)		
	ISD14443A	MIFARE Ultralight	v(e)		·Å()		
		MIFARE Utralight C	day.		A)		
		MIFARE Ultralight EV1	v4)		<b>A</b> 1		
		NFC (NTAG2xx)		11 121 121 12			
		PayPass SLE44R35	430	ANG CO	O STATE		
		SLE66Rxx (my-d move)					
		Topaz			gells		
		HID ICLASS SEOS			400		
		NFC (HCE Mode, works with Armetura ID)		A HAVE			
13.56MHz	Adler	Calypso Calypso Innovatron protocol CEPAS HID ICLASS					
ıt;		CTS					
5	ISO14443B	Moneo					
		Pico Pass	150300	et a laboration	11123111111		
		SRIAK, SRIXAK		DATE:			
	ISO18092/	SRI512, SRT512 Sony FeliCa	417		<b>√</b> 10		
	ECMA-340		777	- contract of			
		EM4x33	TI III A	1 15.15			
	The latest	EM4x35	<b>√</b> t)	1.0	400		
	19015663	HID ICLASS	*10		<b>√10</b>		
		HID ICLASS SE/ SR/ Elite	797		¥100		
		ICODE SLI					
		LEGIC Advant					
		M24LR16/64					
		MB80R118/119		VK4 W			
		SRF55Vox (my-d vicinity)					
		Tag-II					
		Pico Pass	- 10 lb	CS 1537-71			
		LEGIC Prime	A Common of the	1,017	OR KENNIN'S		
	The second second	CPU Gard					

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ARM	ITURA		ARMATURA R	FID Card Module Supporting	g List		
	Classification	Card Module Abbreviation	[RNP]		[FINI]		
Frequency		Compatible Readers	OrmACRO, OrmACRO, FT	O, EPROCO, EPROCKO, EPROCP	OmniAC20, Om	HAC30, FT10, EPS0CQ, EPS0CHQ, EP30CF	03/1
-		AWID	4				
	1	Cardax			- XCL II.		
		CASI-RUSCO		4	ESTABLISHED	4	
	1	Cotag Delster	1,000				
	1	EM4100, 4102, 4200				004 V	
		EM4050, 4150, 4450, 4550		<b>V</b>		4	
		EM4305	N .				
		FDX-B, EM4105	THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO PERSONS NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO PERSONS NAMED IN COLUMN TR				
		Utra Piox					
		G-Prox	A STATE OF THE STA		1000		
		ACCUSAL SECTION	=	νn		√h)	
		HID DuoProx II (1336)		A1		VI)	
	1	HID ISO Prox II (1386)		vo vo		√0	
	1	HID Micro Prox II (1391) HID Prox III (1346)		A)	UNIT 550 CS	v1)	
	1	HID Prox		A)	KT LINE	√h)	
		HID Prox II (1326)		A)		VI)	
		HITAG 1, 2, S		*10		411	
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		05	7				
	1	T5557, T5567, T5577					
		TITAN (EM4050)					
		UNIQUE	The same of the Canada				
	D10000	ZODIAC	C MARIE WAY		1095		
		Globally Available	N P.	* (1334)	97.0	(A)	
		Globally Available					
	Availability	Except for U.S., E.U., Japan, Australia, Canada, U.Y., Albania, Isoland, Liectionstein, Monaco, North Macedonia, Norway, San Marino, Serbia, Swtzanfand, Turkey, and the United Kingdom	KRHATÜ		ETURA		
2) R 3) R 4) U		chip command mode 9) Without on request 90 III Depo	ulieton of 4100, 4102 est storygeton kC (CSN & Facility Code), med Airtle on request	tS; EV2/EV3 supported as part of the EV1 upws 14) From FW V4.05 20; PAC (CSN & Facility Code), read Avrite on re		rur <sup>a</sup>	LO.

The final interpretation of this case sheet belongs to Armeture LLC.

All information regarding the card formets supported by the PPID card modules are claimed by the provider(s) of the card modules. Armeture LLC eccepts no fisbill

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Maintenance and Support

The FT10CMQ, an all-weather multi-tech smart multimodal biometric terminal. 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 FT10CMQ, an all-weather multi-tech smart multimodal biometric terminal:

· User manual

Installation guide

Technical specifications

Software release notes

Warranty terms and conditions

Warranty and Support

The FT10CMQ, an all-weather multi-tech smart multimodal biometric terminal. 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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#### 7. Training and Documentation

The manufacturer shall provide the following training and documentation for the FT10CMQ, an all-weather multi-tech smart multimodal biometric terminal:

- User manuals and technical documentation for installation, configuration, and operation of the reader.
- · 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.