FINGERTEC
www.fingertec.com

Beyond Biometrics
Fingerprint, face & card systems for time attendance, access control & online identification

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RoHS CE FC

FINGERTEC

The brand FingerTec was born in 2000, with a visionary objective of bringing the then high-tech fingerprint technology normally used by government sectors into a technology that is viable, affordable and reachable by the mass commercial market. Its first 5-year plan was dedicated to the R&D incubation, mainly targeted at improving the fingerprint matching algorithm, the product's robustness and user-friendliness; in short to provide fundamentals for the brand to soar high when it was launched. Within those 5 years, FingerTec had won 3 international awards as recognition for its technology advancement.

In 2005, FingerTec embarked on the next 5-year plan, which focused more on worldwide market expansion. The plan deployed new branding concepts and strategies, which included product D-I-Y and Internet support & marketing, while continuing its efforts to improve the R&D. The result was stunning; it elevated FingerTec into one of the most recognized biometric brands in the world in a short period of time. With all the above-mentioned elements, FingerTec managed to spread its wings fast and far, doubling its sales every year with its product presence in around 100 countries within these five years.

To further strengthen FingerTec's global position, the third phase of the 5-year plan was introduced in 2010 with a transparent objective to achieve business and technology transformation. We aim to climb the vertical ladder to provide comprehensive solutions for the access control market, and to employ cloud-computing technology for deployment in the time attendance industry.

The determination in transformation was observed when FingerTec changed all of its business transactions to a company by the name TimeTec in 2014, embracing the brand name of our SaaS (Software as a Service) that marks a new era for the company in Cloud technology for the next 5 years until 2020.

Beginning with a vision, followed by simple yet viable plans and a smooth execution, FingerTec has started a remarkable revolution, changing unreachable technology into state-of-the-art "touchable" products much faster than its rivals, setting a new benchmark for the biometric industry.

I Logical Fingerprint

Made to work with our single sign-on enterprise software application and developer's tool (SDKs) for integration with selected applications. It comes complimentary with the InfoManager software, for a quicker and safer way to use fingerprints for PC login authentication.

II Time Attendance Model

Ideal for companies that plan to record, monitor and analyze staff attendance effectively. All the TA models are bundled with TCMS V3, and they are compatible with FingerTec Cloud Center (FCC) or TimeTec TA at a price, for real time and more comprehensive cloud-based solutions.

III Access Control & Time Attendance Model

Specifically designed to manage a more secure and accurate door access authorization at work premises. All the models are bundled with Ingress software for a more advanced access control system.

IV Controller, QR Reader & IoT

Designed for modern offices, the Ingressus controllers control the access for multiple doors via FingerTec readers, while IoT devices combine door access controllers (BLE series) with TimeTec Security App, TimeTec Access, TimeTec VMS & i-Neighbour Smart Community, providing the convenience of unlocking doors via smartphone. The QR Reader is an option for easy access via QR code.

I Logical Fingerprint

NEW

SPECIFICATIONS	FINGERPRINT
MODEL	OFIS-Z
ALGORITHM	BioBridge VX 9.0 / VX 10.0
SUPPORTING OS	32/64-bit Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, Windows Server 2008
PIXEL RESOLUTION	512 dpi (average x, y over the scanning area)
SCAN CAPTURE AREA, MM	15 x 18
SCAN DATA	8-bit of grayscale (256 levels of gray)
READER SIZE (APPROXIMATE) (L X W X H), MM	45 x 78 x 40
COMPATIBILITY	USB 1.0, 1.1, 2.0 (Full speed) specifications
OS/BROWSER	MS Windows/ MS Internet Explorer (IE 9)
POWER SUPPLY	5.0V +/- 0.25V, USB supply
OPERATING TEMPERATURE (°C)	0 ~ 55
OPERATING HUMIDITY (%)	20 ~ 80 non-condensing
STANDARD FCC CLASS	FCC Class B, CE, USB
USAGE	Indoor, home and office use
FEATURES	Small form factor
	Excellent scan quality
	Encrypted fingerprint data
	Latent print rejection
	Counterfeit finger rejection
	Rotation invariant • *Recognize dry, moist, or rough fingerprints* • *Compatible with FingerTec's standalone readers and software products* • *Reject fake fingerprint*
APPLICATIONS	Desktop computer security
	Registration station for users
	Mobile PCs
	Custom applications
	Home and office use
SOFTWARE	info Manager Simple User Management

PACKAGING

SPECIFICATIONS	FINGERPRINT					FACE
MODEL	**TA500**	**TA700W**	**AC100C**	**TA100C**	**TA200 Plus**	**Face ID 4**
SURFACE FINISHING	Acrylonitrile Butadiene Styrene (ABS) & Polycarbonate (PC)	Acrylonitrile Butadiene Styrene (ABS) & Polycarbonate (PC)	Acrylonitrile Butadiene Styrene (ABS)	Acrylonitrile Butadiene Styrene (ABS)	Acrylonitrile Butadiene Styrene (ABS)	Acrylonitrile Butadiene Styrene (ABS)/ Polycarbonate blend
TYPE OF SCANNER	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner	High resolution infrared camera
MICROPROCESSOR	360 MHz	180 MHz	800 MHz	800 MHz	800 MHz	800 MHz
MEMORY	128 MB flash memory & 16 MB SDRAM	8 MB flash memory & 16 MB SDRAM	256 MB flash memory & 128 MB SDRAM	256 MB flash memory & 128 MB SDRAM	256 MB flash memory & 32 MB SDRAM	256 MB flash memory & 128 MB SDRAM
ALGORITHM	BioBridge VX 10.0	BioBridge VX 10.0	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0 / VX 10.0	Face BioBridge VX 8.0
PUSH TECHNOLOGY	✕	Yes	Yes	Yes	Yes	Yes
DIMENSION (L X W X H), mm	184 x 38 x 134	165 x 14 x 122	195 x 48 x 144	190 x 52 x 140	200 x 56 x 160	148 x 148 x 122
STORAGE						
Templates	Fingerprint 2,000	Fingerprint 1,000	Fingerprint 8,000	Fingerprint 8,000	Fingerprint 10,000	Face: 3000 Card: 10,000
Transactions	80,000	50,000	200,000	200,000	200,000	100,000
ENROLLMENT & VERIFICATION						
Methods	Fingerprint (1:1, 1:N) & password *(Optional RFID Card)*	Fingerprint (1:1, 1:N) & password	Fingerprint (1:1, 1:N) & password	Fingerprint (1:1, 1:N) & password *(Optional RFID Card)*	Fingerprint (1:1, 1:N) card & password	Face (1:1, 1:N), card & password
Recommended fingerprint per user ID	2 *(Max 1000 User ID)*	2 *(Max 500 User ID)*	2	2	2	✕
Fingerprint placement	Any angle	Any angle	Any angle	Any angle	Any angle	✕
Card reading distance, mm	10 ~ 20 (RFID), 30 ~ 50 (Mifare)	✕	✕	10 ~ 20 (RFID, HID), 30 ~ 50 (Mifare)	10 ~ 20 (RFID, HID), 30 ~ 50 (Mifare)	10 ~ 20 (RFID), 30 ~ 50 (Mifare)
Verification time (sec)	< 1	< 1	< 1	< 1	< 1	Face: < 2
FAR (%)	< 0.0001	< 0.01	< 0.0001	< 0.0001	< 0.0001	Face: < 0.01
FRR (%)	< 1	< 0.1	< 1	< 1	< 1	Face: < 0.1
CARD TECHNOLOGY						
RFID: 64-bit, 125kHz	Made to order	✕	✕	Yes *(TA100C-R only)*	Yes	Yes
MIFARE: MFIS50/S70, 13.56MHz	Made to order	✕	✕	Made to order *(MF only)*	Made to order	Made to order
HID: HID 1325, 26-bit, 125kHz	✕	✕	✕	Made to order *(HID only)*	Made to order	✕
COMMUNICATIONS						
Method	TCP/IP, USB disk	WiFi, USB	TCP/IP, USB disk *(Optional RS232 & RS485)*	TCP/IP, USB disk *(Optional RS232, RS485, WiFi & GPRS)*	TCP/IP, USB disk *(Optional RS232, RS485, POE & WiFi, 3G only applicable to non-POE devices)*	TCP/IP, USB disk, USB client *(Optional WiFi)*
Baud rates	✕	✕	9600 ~ 115200	9600 ~ 115200	9600 ~ 115200	9600 ~ 115200
Wiegand	✕	✕	✕	✕	✕	✕
OPERATING ENVIRONMENT						
Temperature (°C)	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45
Humidity (%)	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80
Power input	DC 12V 1.5A	DC 5V 0.8A	DC 5V 2A	DC 5V 2A	DC 12V 3A, DC 5V 2A (POE)	DC 12V 3A
TIME ATTENDANCE						
Siren	Yes	✕	✕	Built-in and external	Built-in *(Optional external)*	Built-in
Work codes	Yes	Yes	Yes	Yes	Yes	Yes
Fast Transaction Checking	✕	✕	✕	✕	✕	Yes
MULTIMEDIA						
Voice	Yes	Yes	Yes	Yes	Yes	Yes
Display	2.8" 3k color TFT screen	2.8" 65k color TFT screen	3.0" 65k color TFT screen	3.0" 65k color TFT screen	3.5" 65k color TFT screen	3.0" 65k color TFT touch screen panel
Photo ID	✕	✕	Yes	Yes	Yes	Yes
Short Messaging	✕	✕	Yes	Yes	Yes	Yes
Day Light Saving Timer	✕	✕	✕	✕	✕	Yes
Internal Backup Battery	Yes *(2 hours working, 4 hours standby)*	✕	✕	✕	✕	✕

✕ = Not Applicable | All master terminals come packaged with FingerTec software. RoHS CE FC **3 Years Warranty**

Access Control & Time Attendance Model

SPECIFICATIONS	FINGERPRINT							FACE & FING
MODEL	**AC900**	**R2**	**R3**	**R2c** (Slave)	**R3c** (Slave)	**H2i**	**Q2i**	**Face ID 2** (FMM)
SURFACE FINISHING	Acrylonitrile Butadiene Styrene (ABS)	Acrylonitrile Butadiene Styrene (ABS)	In-mould labelling (IML), poly carbonate (PC) & (ABS)	Acrylonitrile Butadiene Styrene (ABS)	Acrylonitrile Butadiene Styrene (ABS), IP65	Acrylonitrile Butadiene Styrene (ABS)	Acrylonitrile Butadiene Styrene (ABS)	Acrylonitrile Butadiene Styrene (ABS) & acrylic
TYPE OF SCANNER	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner	Hi-res infrared camera & fingerprint scanner
MICROPROCESSOR	400 MHz	400 MHz	400 MHz	Managed by master	1.0 GHz	300 MHz	800 MHz	1.2 GHz Single Core CPU
MEMORY	128 MB flash memory & 32 MB SDRAM	128 MB flash memory & 32 MB SDRAM	256 MB flash memory & 32 MB SDRAM	Managed by master	Managed by master	256 MB flash memory & 32 MB SDRAM	256 MB flash memory & 64 MB SDRAM	128MB Nand flash & 64MB Nand flash
ALGORITHM	BioBridge VX 9.0 / 10.0	BioBridge VX 9.0 / 10.0	BioBridge VX 10.0	BioBridge VX 10.0	BioBridge VX 10.0	BioBridge VX 9.0 / 10.0	BioBridge VX 9.0 / 10.0	Face BioBridge VX 8.0, FP BioBridge VX 9.0/ 10.0
PUSH TECHNOLOGY	Yes	Yes	Yes	✕	✕	✕	Yes	Yes
DIMENSION (L X W X H), mm	91 x 40 x 190	94 x 50 x 189	78 x 32 x 190	64 x 42 x 135	77 x 38 x 121	78 x 50 x 150	200 x 56 x 160	194 x 110 x 145
STORAGE								
Templates	FP: 3,000	FP: 3,000	FP: 3,000	Storage in master terminal	Storage in master terminal	FP: 1,500	FP: 10,000	FP: 10,000 Face:1,200 Card: 10,000
Transactions	120,000	120,000	100,000			100,000	200,000	200,000
ENROLLMENT & VERIFICATION								
Methods	Fingerprint (1:1, 1:N) & password	Fingerprint (1:1, 1:N) card & password	Fingerprint (1:1, 1:N) card & password	Fingerprint (1:N) & card	Fingerprint (1:N) & card	Fingerprint (1:N) & card	Fingerprint (1:1, 1:N) card & password	Face (1:1, 1:N), fingerprint (1:1, 1:N), card & password
Recommended fingerprint per user ID	2	2	2	Managed by master	Managed by master	2	2	2
Fingerprint placement	Any angle	Any angle	Any angle	Any angle	Any angle	Any angle	Any angle	Any angle
Card reading distance, mm	✕	10 ~20 (RFID, HID), 30 ~ 50 (Mifare)	10 ~20 (RFID), 30 ~ 50 (Mifare)	10 ~20 (RFID, HID), 30 ~ 50 (Mifare)	10 ~20 (RFID), 30 ~ 50 (Mifare)	10 ~20 (RFID, HID), 30 ~ 50 (Mifare)	10 ~20 (RFID, HID), 30 ~ 50 (Mifare)	10 ~20 (RFID, HID), 30 ~ 50 (Mifare)
Verification time (sec)	< 1	< 1	< 1	Managed by master	Managed by master	< 1	< 1	FP: <1, Face: <2
FAR (%)	< 0.0001	< 0.0001	< 0.0001			< 0.0001	< 0.0001	FP: <0.0001, Face: <0.01
FRR (%)	< 1	< 1	< 1			< 1	< 1	FP: <0.1, Face: <0.1
CARD TECHNOLOGY								
RFID: 64-bit, 125kHz	✕	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MIFARE: MFIS50/S70, 13.56MHz	✕	Made to order	Made to order	Made to order	Made to order	Made to order	Made to order	Made to order
HID: HID 1325, 26-bit, 125kHz	✕	Made to order	✕	✕	✕	Made to order	Made to order	Made to order
COMMUNICATIONS								
Method	TCP/IP, RS232, RS485	TCP/IP, RS232, RS485, USB disk	TCP/IP, RS232, RS485, USB disk	RS485	RS485	TCP/IP, RS232, RS485, USB disk	TCP/IP, RS232, RS485, USB disk *(Optional WiFi & 3G)*	TCP/IP, RS232, RS485, USB disk *(Optional WiFi & 3G)*
Baud rates	9600 ~ 115200	9600 ~ 115200	9600 ~ 115200	✕	✕	9600 ~ 115200	9600 ~ 115200	9600 ~ 115200
Wiegand	26-bit output	26-bit input/output	26-bit input/output	✕	✕	26-bit input/output	26-bit input/output	26-bit input/output
OPERATING ENVIRONMENT								
Temperature (°C)	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45
Humidity (%)	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80
Power input	DC 12V 3A	DC 12V 3A	DC 12V 3A	Managed by Master	DC 12V 3A	DC 12V 3A	DC 12V 3A	DC 12V 3A
TIME ATTENDANCE								
Siren	✕	✕	✕	✕	✕	✕	Built-in *(Optional external)*	Built-in *(Optional external)*
Work codes	Yes	Yes	Yes	✕	✕	✕	Yes	Yes
Fast transaction checking	✕	✕	✕	✕	✕	✕	✕	Yes
MULTIMEDIA								
Voice	✕	Yes	Yes	✕	✕	Yes	Yes	Yes
Display	Black and white	Black and white	2.4" 3k color LCD	✕	✕	✕	3.5" 65k color TFT screen	4.3" 65k color TFT touch screen panel
Photo ID	✕	✕	Yes	✕	✕	✕	Yes	Yes
Short messaging	✕	Yes	Yes	✕	✕	✕	Yes	Yes
Day Light Saving Timer	✕	✕	✕	✕	✕	✕	✕	Yes
Internal backup battery	✕	✕	✕	✕	✕	✕	✕	Yes (DC12V, 2000m Ah)
ACCESS CONTROL								
EM Lock driving output	DC 12V 3A / relay output	DC 12V 3A / relay output	DC 12V 3A / relay output	Managed by master	Managed by master	DC 12V 3A / relay output	DC 12V 3A / relay output	DC 12V 3A / relay output
Alarm output	NO/NC	NO/NC	NO/NC			NO/NC	NO/NC	NO/NC
Anti passback	✕	Yes	Yes			Yes	Yes	Yes

*✕ = **Not Applicable** | All master terminals come packaged with FingerTec software.*

ingress

FingerTec Product Comparison

	FINGERPRINT	FACE		CARD	
	Face ID X	**Face ID 3**	**Face ID 4D**	**Kadex**	**i-Kadex** (Slave)
Material	Acrylonitrile Butadiene Styrene (ABS) & acrylic	Acrylonitrile Butadiene Styrene (ABS) & acrylic	Acrylonitrile Butadiene Styrene (ABS)/ polycarbonate blend	Acrylonitrile Butadiene Styrene (ABS)	Polycarbonate
Sensor	Hi-res infrared camera & fingerprint scanner	High resolution infrared camera	High resolution infrared camera	✕	✕
CPU	1.2 GHz Single Core CPU	800 MHz	800 MHz	400 MHz	Managed by master
Memory	1.0GB SDRAM/ 1.0GB flash	256 MB flash memory & 128 MB SDRAM	256 MB flash memory & 128 MB SDRAM	8 MB flash memory & 32 MB SDRAM	Managed by master
Algorithm	Face BioBridge VX 8.0, FP BioBridge VX 9.0/ 10.0	Face BioBridge VX 8.0	Face BioBridge VX 8.0	✕	✕
Push Technology	Yes	Yes	Yes	Yes	Managed by master
Dimension	194 x 110 x 145	86 x 62 x 218	148 x 148 x 122	92 x 49 x 137	55 x 15 x 100
Templates	FP: 10,000 Face: 3000 (1:N), 30000(1:1) Card: 10,000	Face:1,500 Card: 10,000	Face: 3000 Card: 10,000	Card: 30,000	Storage in master terminal
Transactions	1,000,000	100,000	100,000	50,000	
Methods	Face (1:1, 1:N), fingerprint (1:1, 1:N), card & password	Face (1:1, 1:N), card & password	Face (1:1, 1:N), card & password	Card & password	Card
	2	✕	✕	✕	Managed by master
	Any angle	✕	✕	✕	✕
	10 ~20 (RFID, HID), 30 ~ 50 (Mifare)	10 ~20 (RFID, HID), 30 ~ 50 (Mifare)	10 ~20 (RFID), 30 ~ 50 (Mifare)	10 ~20 (RFID, HID), 30 ~ 50 (Mifare)	10 ~20 (RFID, HID), 30 ~ 50 (Mifare)
Verification time	FP: <1, Face: <2	Face: < 2	Face: < 2	< 1	Managed by master
FAR	FP: <0.0001, Face: <0.01	Face: < 0.01	Face: < 0.01	✕	✕
FRR	FP: <0.1, Face: <0.1	Face: < 0.1	Face: < 0.1	✕	✕
	Yes	Yes	Yes	Yes	Yes
	Made to order	Made to order	Made to order	Made to order	Made to order
	Made to order	Made to order	✕	Made to order	✕
Communications	TCP/IP, RS232, RS485, USB disk (Optional WiFi & 3G)	TCP/IP, RS232, RS485, USB disk (Optional WiFi)	TCP/IP, USB disk, USB client (Optional WiFi)	TCP/IP, RS232, RS485, USB disk	Wiegand
Baud rates	9600 ~ 115200	9600 ~ 115200	9600 ~ 115200	9600 ~ 115200	✕
Wiegand	26-bit input/output	26-bit input/output	✕	26-bit input/output	26-bit output
Temperature	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	-10 ~ 70
Humidity	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80
Power Input	DC 12V 3A	DC 12V 3A	DC 12V 3A	DC 12V 2A	DC 12V 1A
	Built-in and external	Built-in (Optional external)	Built-in (Optional external)	✕	✕
	Yes	Yes	Yes	Yes	✕
	Yes	Yes	Yes	✕	✕
	Yes	Yes	Yes	Yes	✕
Display	4.3" 65K color TFT touch screen panel	3.0" 65k color TFT touch screen panel	3.0" 65k color TFT touch screen panel	Black and white	✕
	Yes	Yes	Yes	✕	✕
	Yes	✕	Yes	Yes	✕
	Yes	Yes	Yes	✕	✕
	Yes (DC12V, 2000m Ah)	✕	✕	✕	✕
Lock relay output	DC 12V 3A / relay output	DC 12V 3A / relay output	DC 12V 3A / relay output	DC 12V 3A / relay output	Managed by master
	NO/NC	NO/NC	NO/NC	NO/NC	
	Yes	✕	✕	Yes	✕

NEW   *FTD   **NEW**   **NEW**

SPECIFICATIONS	FACE ID 5 SERIES	
MODEL	**Face ID 5 TD/FTD***	**Face ID 5**
SURFACE FINISHING	Glass with aluminium frame	Glass with aluminium frame
TYPE OF SCANNER	2 MP WDR low light camera & High resolution fingerprint scanner	2 MP WDR low light camera & High resolution fingerprint scanner
MICROPROCESSOR	900 MHz dual core CPU	900 MHz dual core CPU
MEMORY	512MB RAM, 8G flash	512MB RAM, 8G flash
ALGORITHM	Face: BioBridge VX 5.8, FP: BioBridge VX 10.0, Palm: BioBridge VM 12.0	Face: BioBridge VX 5.8, FP: BioBridge VX 10.0, Palm: BioBridge VM 12.0
PUSH TECHNOLOGY	Yes	Yes
DIMENSION (L x W x H), mm	92 x 23 x 225 (262*)	92 x 23 x 203
STORAGE		
Templates	Face: 6,000, FP: 6,000, Palm: 3,000	Face: 6,000, FP: 6,000, Palm: 3,000, Card: 10000
Transactions	200,000	200,000
ENROLLMENT & VERIFICATION		
Methods	Face (1:1, 1:N), FP (1:1, 1:N), Palm (1:N) & Password	Face (1:1, 1:N), FP (1:1, 1:N), Palm (1:N), Card & Password
Verification time (sec)	FP: <1s, Face: <2s, Palm: <0.35s	FP: <1s, Face: <2s, Palm: <0.35s
FAR (%)	FP: <0.0001%, Face: <0.01%	FP: <0.0001%, Face: <0.01%
FRR (%)	FP: <0.1%, Face: <0.1%	FP: <0.1%, Face: <0.1%
CARD TECHNOLOGY		
RFID: 64-bit, 125kHz,	Made to order	Yes
RF output power (EN300-330)	Made to order	Made to order
MIFARE: MFIS50/S70, 13.56MHz	Made to order	Made to order
COMMUNICATIONS		
Method	TCP/IP, R5485, WiFi (Optional)	TCP/IP, R5485, WiFi (Optional)
Baud rates	9600 ~ 115200	9600 ~ 115200
Wiegand	Input/Output	Input/Output
OPERATING ENVIRONMENT		
Temperature (°C)	16~32	0~45
Humidity (%)	20~80 / 10~90*	10~90
Power Input	DC 12V 3A	DC 12V 3A
TIME ATTENDANCE		
Siren	✕	✕
Work codes	✕	✕
MULTIMEDIA		
Voice	Yes	Yes
Display	5" 65k color TFT touch screen panel	5" 65k color TFT touch screen panel
Photo-ID	Yes	Yes
Short messaging	✕	✕
ACCESS CONTROL		
Lock relay output	Yes	Yes
Alarm output/auxiliary input	Yes	Yes
Exit button/door sensor	Yes	Yes
PREVENTIVE MEASURES		
Mask detection	Yes	✕
Fever detection	Yes	✕
Fever measurement distance (cm)	30 - 50	✕
Fever detection speed	>0.3s	✕
Temperature measurement range (°C)	34 ~ 45	✕
Temperature measurement accuracy (°C)	+/– 0.3	✕

*✕ = Not Applicable | All master terminals come packaged with FingerTec software.   RoHS   CE   FC   3 Years Warranty

SPECIFICATIONS	CONTROLLER			QR READER	IOT	
MODEL	INGRESSUS I	INGRESSUS II	INGRESSUS IV	QR110 (Slave)	BLE-2	BLE-16
MICROPROCESSOR	ACPU 32-bit, 400 MHz	CPU 32-bit, 400 MHz	CPU 32-bit, 400 MHz	Managed by Ingressus/ terminal	ARM CORTEX-M0 32-bit RISC 48MHz	ARM CORTEX-M0 32-bit RISC 48MHz
MEMORY	128MB flash memory & 32 MB SDRAM	128MB flash memory & 32 MB SDRAM	128MB flash memory & 32 MB SDRAM	✕	64KB flash memory & 16KB SRAM	64KB flash memory & 16KB SRAM
POLARITY PROTECTION	Yes	Yes	Yes	✕	Yes	Yes
DIMENSION (L X W X H), mm	186 x 106 x 36	186 x 106 x 36	226 x 106 x 36	86 x 4 x 86	85 x 96 x 33	180 x 231 x 62
STORAGE						
Templates	Fingerprint: 3,000 Card: 30,000 Password: 30,000	Fingerprint: 3,000 Card: 30,000 Password: 30,000	Fingerprint: 3,000 Card: 30,000 Password: 30,000	Managed by Ingressus/ terminal	Card: 1,000	✕
Users	✕	✕	✕	Managed by Ingressus/ terminal	Unlimited, stored in cloud server	Unlimited, stored in cloud server
Transactions	100,000	100,000	100,000		Unlimited, stored in cloud server	Unlimited, stored in cloud server, local 1,000 transactions
VERIFICATION						
Method	Wiegand terminal	Wiegand terminal	Wiegand terminal	QR Code RFID EM Card 125KHz MiFare Card13.56 MHz (Made to order)	Mobile App & Card (RFID 64-bit 125kHz)	Mobile App
Reading Distance	✕	✕	✕	QR Code: 3~10cm Card: 2~3cm	RFID: 40 ~ 80 mm Mobile App: < 5m	Mobile App: < 5m
COMMUNICATION						
Method	TCP/IP, RS485 (communication to server)	TCP/IP, RS485 (communication to server)	TCP/IP, RS485 (communication to server)	Wiegand, RS485	WiFi (AWS IoT connection), Bluetooth Low Energy (BLE) 4.2	WiFi (AWS IoT connection), Dual BLE 4.0 & 4.2
Smartphone	✕	✕	✕	✕	Android 4.0.2 and above, iOS 8.0 and above	Android 4.0.2 and above, iOS 8.0 and above
Max terminal	2	4	4	✕	✕	✕
Wiegand	2 x 26-bit Wiegand input. Each for 1 slave terminal (1 x RS485 input to support RS485 network) (max 2 units)	4 x 26-bit Wiegand input. Each for 1 slave terminal (1 x RS485 input to support RS485 network) (max 4 units)	4 x 26-bit Wiegand input. Each for 1 slave terminal (1 x RS485 input to support RS485 network) (max 8 units)	Wiegand 26/34 output	Wiegand 26-bit input	✕
OPERATING ENVIRONMENT						
Temperature (°C)	0 ~ 55	0 ~ 55	0 - 55	-10 ~ 70	0 ~ 45	20 ~ 80
Humidity (%)	10 ~ 80	10 ~ 80	10 ~ 80	10 ~ 80	20 ~ 80	10 ~ 90
Power input	DC 12V	DC 12V	DC 12V	DC9~16V, <100mA	DC 12V	DC 9 ~ 12 V
Battery input	✕	✕	✕	✕	✕	✕
INPUT						
Push release button	1	2	4	✕	Yes	✕
Door sensor	1	2	4	✕	✕	✕
Siren mute	✕	✕	✕	✕	✕	✕
AUX	1	2	4	✕	✕	✕
Types of AUX input supported	Motion detector, passive DIR detector, curtain passive infrared detector, pet immunity PIR detector, two beam digital active infrared detector, heat detector			✕	✕	✕
OUTPUT						
Door lock (DC 12V 10A form C relay)	1	2	4	✕	3	16
Siren output	✕	✕	✕	✕	✕	✕
AUX output (DC 30V 2A Form C relay)	1	2	4	✕	✕	✕
Types of AUX output supported	Gas detector and compatible sensors, Piezo strobe siren, electronic siren			✕	✕	✕
CHANNELS	✕	✕	✕	✕	3 FORM C Relay output, NO/NC selected via jumper Wiegand 26-bit input	16 FORM C Relay output, Fail-Safe bypass design
SOLUTION/ SOFTWARE	INGRESS	INGRESS	INGRESS	INGRESS	TimeTec TA, TimeTec Security, TimeTec Access, TimeTec VMS, i-Neighbour	TimeTec Security, TimeTec Access, TimeTec VMS, i-Neighbour

SPECIFICATIONS	IOT
MODEL	QF Plus
SURFACE FINISHING	Acrylonitrile Butadiene Styrene (ABS)
TYPE OF SCANNER	2MP Dual Camera
OS	Android 8.1
CPU	Quad-core, 1.5GHz
MEMORY	RAM 2GB / ROM 16GB
ALGORITHM	Face: BioBridge VX 9.0
PUSH TECHNOLOGY	Yes
DIMENSIONS (L X W X H), mm	158 x 15.6 x 74
TEMPLATES	Face: 6000 templates (optional upgrade 10,000)
TRANSACTION	1,000,000
ENROLLMENT & VERIFICATION	
Methods	Face (1:N)
Verification time (sec)	Face < 1
FAR (%)	Face: < 0.01
FRR (%)	Face: < 0.1
COMMUNICATIONS	
Wi-Fi	2.4GHz, 5GHz, 802.11 a / b / g / n (For connection with Ingress)
Bluetooth	4.0
4G Wireless Broadband	Yes
USB & GPS	USB 2.0, GPS / A-GPS
MULTIMEDIA	
Voice	Yes
Display	720 x 1280, IPS touch LCD
Photo ID	Yes
Speaker	90DB (10cm distance)
Microphone	1m clear voice pickup
Short messaging	Yes
Day light saving timer	Yes
OPERATING ENVIRONMENT	
Power	12V 2A
Operating Temperature	-10°C - 50°C
Operating Humidity	20% - 80% RH
TIME ATTENDANCE	
Work codes	Yes
Fast transaction checking	Yes
ACCESS CONTROL *Optional	
Door Controller	TimeTec BLE-2
EM Lock driving output	DC12V relay output
Lock output type	NO/NC
Antipassback	Yes
Transaction records	Unlimited
Event capacity	Stored in cloud server
Solution/ software	i-TimeTec Ingress TimeTec TA TimeTec Access

3 Years Warranty   FC   CE   RoHS   *✕ = **Not Applicable** | All master terminals come packaged with FingerTec software.

Hardware Selection Guide

FingerTec has an extensive range of biometric and card products. This guide serves as initial tool for you to compare it against your requirements and budget. Once you have decided on the models you want or if you have any further questions, email us at *info@fingertec.com* for detailed discussions. FingerTec pledges to make things easy for you, always.

MODEL / FEATURE	Fingerprint	Face	Card	Password	QR Code	Back & White	Color	RS232/ RS485	TCP/IP	Bluetooth	WiFi	3G/4G	USB	Wiegand	Push Technology	Bundled Software	Price Range
Time Attendance Model																	
TA500	✓	✗	A	✓	✗	✗	✓	A	✓	✗	✗	✗	✓	✗	✗	TCMS V3	★
TA700W	✓	✗	✗	✓	✗	✗	✓	✗	✗	✗	✓	✗	✓	✗	✓	TCMS V3	★⯪
AC100C	✓	✗	✗	✓	✗	✗	✓	A	✓	✗	✗	✗	✓	✗	✓	TCMS V3	★★
TA100C	✓	✗	A	✓	✗	✗	✓	A	✓	✗	A	✗	✓	✗	✓	TCMS V3	★★⯪
TA100C-R	✓	✗	✓	✓	✗	✗	✓	A	✓	✗	A	✗	✓	✗	✓	TCMS V3	★★⯪
TA200 PLUS	✓	✗	✓	✓	✗	✗	✓	A	✓	✗	A	A	✓	✗	✓	TCMS V3	★★★
TA200 PLUS (POE)	✓	✗	✓	✓	✗	✗	✓	A	✓	✗	A	✗	✓	✗	✓	TCMS V3	★★★
Face ID 4	✗	✓	✓	✓	✗	✗	✓	✗	✓	✗	A	✗	✓	✗	✓	TCMS V3	★★★
Access Control & Time Attendance Model																	
AC900	✓	✗	✗	✓	✗	✓	✗	✓	✓	✗	✗	✗	✗	✓	✗	Ingress	★★
R2	✓	✗	✓	✓	✗	✓	✗	✓	✓	✗	✗	✗	✓	✓	✓	Ingress	★★★
R3	✓	✗	✓	✓	✗	✗	✓	✓	✓	✗	✗	✗	✓	✓	✓	Ingress	★★★
R2c*	✓	✗	✓	✗	✗	✗	✗	RS485 only	✗	✗	✗	✗	✗	✗	✗	✗	★
R3c*	✓	✗	✓	✗	✗	✗	✗	RS485 only	✗	✗	✗	✗	✗	✗	✗	✗	★
H2i	✓	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗	✗	✓	✓	✗	Ingress	★⯪
Q2i	✓	✗	✓	✓	✗	✗	✓	✓	✓	✗	A	A	✓	✓	✓	Ingress	★★★⯪
Face ID 2FMM	✓	✓	✓	✓	✗	✗	✓	✓	✓	✗	A	A	✓	✓	✓	Ingress	★★★★
Face ID-X	✓	✓	✓	✓	✗	✗	✓	✓	✓	✗	A	A	✓	✓	✓	Ingress	★★★★
Face ID 3	✗	✓	✓	✓	✗	✗	✓	✓	✓	✗	A	✗	✓	✓	✓	Ingress	★★★⯪
Face ID 4D	✗	✓	✓	✓	✗	✗	✓	✗	✓	✗	A	✗	✗	✓	✓	Ingress	★★★⯪
Face ID 5	✓	✓	✓	✓	✗	✗	✓	✓	✓	✗	✗	✗	✓	✓	✓	Ingress	★★★★★
Face ID 5/TD	✓	✓	A	✓	✗	✗	✓	✗	✓	✗	✗	✗	✓	✓	✓	Ingress	★★★★★
Face ID 5/FTD	✓	✓	A	✓	✗	✗	✓	✗	✓	✗	✗	✗	✓	✓	✓	Ingress	★★★★★
Kadex	✗	✗	✓	✓	✗	✗	✗	✓	✓	✗	✗	✗	✓	✓	✓	Ingress	★⯪
i-Kadex*	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	⯪
Controller, QR Reader & IoT																	
INGRESSUS I	✗	✗	✓	✓	✗	✗	✗	RS485 only	✓	✗	✗	✗	✗	✓	✗	Ingress	★⯪
INGRESSUS II	✗	✗	✓	✓	✗	✗	✗	RS485 only	✓	✗	✗	✗	✗	✓	✗	Ingress	★★
INGRESSUS IV	✗	✗	✓	✓	✗	✗	✗	RS485 only	✓	✗	✗	✗	✗	✓	✗	Ingress	★★⯪
QR110	✗	✗	✗	✓	✓	✗	✗	RS485 only	✗	✗	✗	✗	✗	✓	✓	✗	★
BLE-2	✗	✗	✓	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗	✓	✗	TimeTec TA/ i-TimeTec/ Access/ VMS/ i-Neighbour	★⯪
QF PLUS	✗	✓	✗	✗	✗	✗	✗	✗	✗	✓	✓	4G	✓	✗	✗	TimeTec TA/ i-TimeTec/ Access/ VMS/ i-Neighbour	★★⯪
BLE-16	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗	i-TimeTec/ Access/ VMS/ i-Neighbour	★★★★★
Logical Fingerprint																	
OFIS-Z	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗	InfoManager	★

* = Slave reader | ✓ = Available | ✗ = Not available | A = Available Upon Request

Software Selection Guide

FingerTec

offers a variety of different softwares to suit the different business needs of our clients. With all the different requirements, comparing the different software functions can be a little tricky. So here's a selection guide to help you out with the details, similarities, and differences between our offered solutions.

APPLICATION / FEATURE	Functionality	Database Engine	Mobile App	OS/Browser	Hardware	Total Reports	Export Format	Languages	Price
WINDOWS APPLICATION									
ingress	Advance access control and complete time attendance	MySQL, MS Access	Android and iOS	Server 2003, Server 2008, Windows 7, Windows 8, Windows 10	AC900, R2, R3, H2i, Q2i, Kadex, Face ID 2/3/4d/X, Ingressus I/II/IV, QR110, Face ID 5 Series, QF Plus	36	CSV, TXT, XLS	Arabic, Bulgarian, Chinese (Simplified), Chinese (Traditional), English, French, German, Hindi, Indonesian, Kurdish, Malay, Persian, Portuguese, Russian, Spanish, Thai, Vietnamese	Bundled with hardware
ingress Visitor Management System	Visitor management system	MySQL	N/A	Safari, Google Chrome, Mozilla Firefox,	AC900, R2, R3, H2i, Kadex, Face ID 2/3/4d/X, Ingressus I/II/IV, QR110	5	PDF	Arabic, Bulgarian, Chinese (Simplified), Chinese (Traditional), English, German, Hindi, Indonesian, Kurdish, Malay, Persian, Portuguese, Russian, Spanish, Thai, Vietnamese	Payable
TCMSV3	Complete time attendance	MS Access	N/A	Server 2003, Server 2008, Windows 7, Windows 8, Windows 10	TA300, TA500, TA700W, AC100C, TA100C, TA200Plus, Face ID 4	28	CSV, TXT, XLS	Arabic, Bulgarian, Chinese (Simplified), Chinese (Traditional), English, French, German, Hindi, Indonesian, Kurdish, Malay, Persian, Portuguese, Russian, Spanish, Thai, Vietnamese	Bundled with hardware
TIMETEC CLOUD-BASED APPLICATION									
FCC	Cloud-based platform to consolidate and centralize the database for time attendance	MySQL	N/A	Safari, Google Chrome, Mozilla Firefox	AC100C, TA100C, TA200 Plus, TA700W, AC900, R2, R3, Q2i, Kadex,Face ID 2/3/4/4d, Android phones, iPhones (BLE-2, TA only)	N/A	CSV, TXT, XLS	All languages (Original + Machine translations)	Subscription
TA	Advance attendance	MySQL	Android and iOS	Safari, Google Chrome, Mozilla Firefox		34	CSV, TXT, XLS	All languages (Original + Machine translations)	Subscription
PATROL	Security guards and patrol management	MySQL	Android	Safari, Google Chrome, Mozilla Firefox	NFC tags and Android phones	6	CSV, TXT, XLS	All languages (Original + Machine translations)	Subscription
HIRE	HR workforce hiring	MySQL	Android and iOS	Safari, Google Chrome, Mozilla Firefox	✕	TBA	CSV, TXT, XLS	All languages (Original + Machine translations)	Subscription
LEAVE	Leave management	MySQL	Android and iOS	Safari, Google Chrome, Mozilla Firefox	Android phones and iPhones	21	CSV, TXT, XLS	All languages (Original + Machine translations)	Subscription
PROFILES	Employee Management	MySQL	✕	Safari, Google Chrome, Mozilla FireFox	✕	1	CSV, TXT, XLS	All languages (Original + Machine translations)	Free/ Subscription
VMS	Visitor registration and management	MySQL	Android and iOS	Safari, Google Chrome, Mozilla Firefox	BLE-2 & 16 Android phones and iPhones	TBA	CSV, TXT, XLS	All languages (Original + Machine translations)	Subscription
ACCESS	Access control management	MySQL	Android and iOS	Safari, Google Chrome, Mozilla Firefox	BLE-2 & 16 Android phones and iPhones	8	CSV, TXT, XLS	All languages (Original + Machine translations)	Subscription
EpiCAMERA	Cloud video surveillance	MySQL	Android and iOS	Safari, Google Chrome, Mozilla Firefox	IP cameras, Android phones and iPhones	4	JPEG	All languages (Original + Machine translations)	Subscription
i-Neighbour	Residential and neighbourhood management	MySQL	Android and iOS	Safari, Google Chrome, Mozilla Firefox	BLE-2 & 16 Android phones and iPhones	10	CSV, TXT, XLS	All languages (Original + Machine translations)	Subscription
i-TIMETEC	Standalone App for IoT devices	MySQL	Android & iOS	✕	BLE-2 & 16, Smart Lock, IP Cameras, Smart Alarm, Android phones and iPhones	3	XLS	English, Chinese (Simplified & Traditional), Malay, Turkish, Spanish, Thai, Arabic, others upon request	Free
SOFTWARE DEVELOPMENT KITS (SDK)									
BioBridge SDK	To integrate FingerTec terminals to any third party system	✕	✕	Server 2003, Server 2008, Windows 7, Windows 8, Windows 10	TA300, TA500, AC100C, TA100C, TA200 Plus, TA700W, AC900, R2, R3, H2i, Q2i, Kadex, Face ID 2/3/4/4d/X	✕	✕	✕	Free for registered developers
OFIS SDK	To integrate OFIS scanners with any solutions	✕	✕		OFIS scanners	✕	✕	English	Free for registered developers
ingressUS SDK	To integrate Ingressus with any third party access control software	✕	✕		Ingressus I, Ingressus II, Ingressus IV	✕	✕	English	Free for registered developers
timeTec SDK	To integrate TimeTec solution with any third party systems	✕	✕	Safari, Google Chrome, Mozilla Firefox	✕	✕	✕	English	Free for registered developers
SOFTWARE TOOLS									
FTDP FINGERTEC DATA PROCESSOR	To manage and edit users, faces, fingerprints, logsand terminals' information	MS Access, MSSQL	✕	Server 2003, Server 2008, Windows 7, Windows 8, Windows 10	TA300, TA500, AC100C, TA100C, TA200 Plus, TA700W, AC900, R2, R3, H2i, Q2i, Kadex, Face ID 2/3/4/4d, Ingressus I/II/IV	✕	TXT, XLS, XML, HTML	English	Bundled with hardware
AWDMS	Auto Web-Based Database Management System	MYSQL PostgreSQL	✕	Server 2003, Server 2008, Windows 7, Windows 8, Windows 10 (64 bit)	Face ID 5 Series, QF Plus	✕	✕	English	FingerTec software Hardware when using with Ingress

TBA = To be announced | ✕ = Not applicable | N/A = Not available | Online update is available for all FingerTec software.

Authorized Reseller

TIMETEC COMPUTING SDN BHD

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