Avowal

"A trusted business partner".

AVOWAL (T) LTD

Company Profile

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About Us

Avowal Tanzania Ltd was established on June 27, 2016, following a significant evolution from the original business entity known as AVOWAL GENERAL SUPPLY, which operated as a sole proprietorship and was officially registered with BRELA in 2011. The decision of transition to an incorporated business structure was made by the Co-founder with the primary objective of enhancing operational efficiency. He believes business is life and if it is life, so intensive customer handling/after sales services and quality products are primary factors for the firm's growth. Our primary operations involve the sale, maintenance, and provision of support for the use of electronic devices, consumables, and intricate software solutions. We now have 8 years in electronics business and after sales support. AVOWAL (T) LTD is also engaged in providing complex software solutions as a means to actively engage in addressing social issues. The company has a number of software solutions currently in development that are poised to have a significant impact on society employment, issue resolution, and organizational revenue, thereby catalyzing further advancements. The software solutions team lead by Co-founder is the main mechanism to plan, advise, supervise and make sure solutions are implemented and operating in the targeted society. Generally AVOWAL (T) LTD believes in business dynamics.

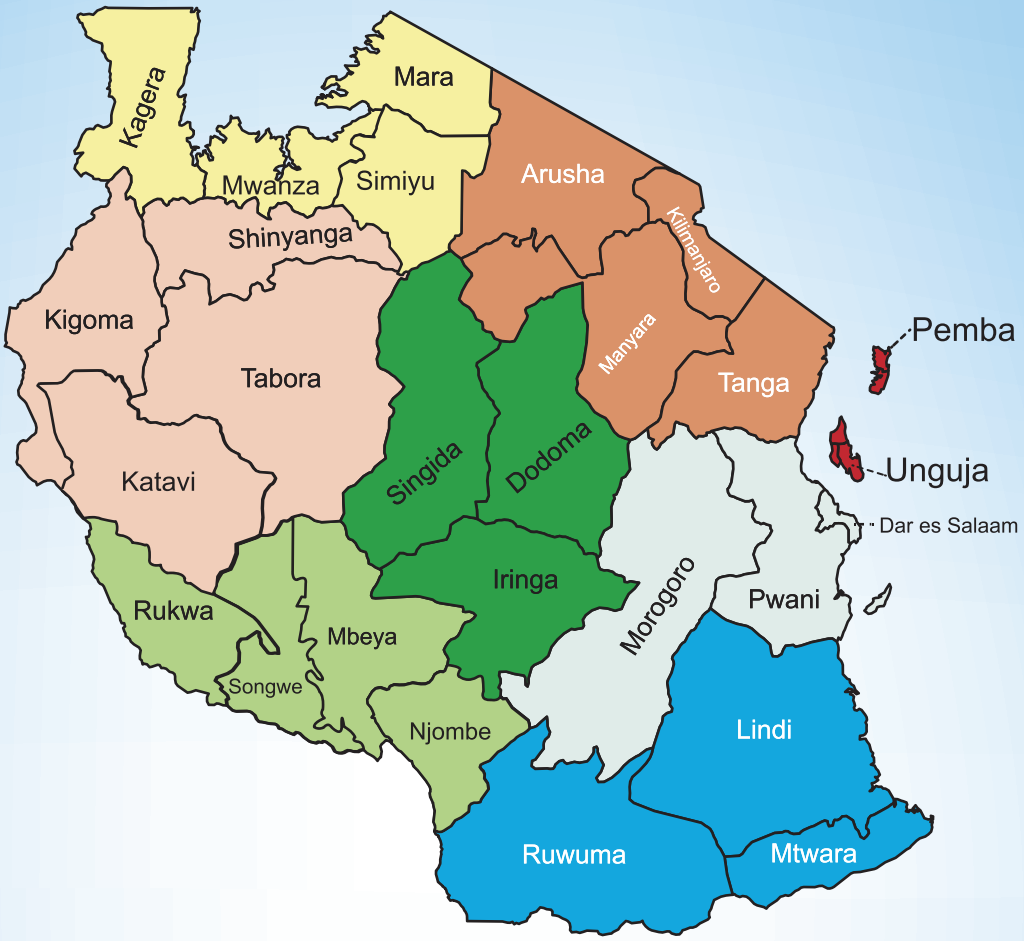
MISSION & VISSION

AVOWAL (T) LTD is focused on providing competitive products in term of quality and pricing. All eyes are erected to not only customer whispering but to any taste customer can feel thirsty to get should be provided in a same quality and reasonable price from AVOWAL (T) LTD. We listen; take action to meet customer taste. We believe customer is the backbone of any business. As business is dynamic the management has investing knowledge and strategy to engage in Banknote business. We have direct contract with MAGNER INTERNATIONAL – USA. Our target is to provide reliable, quality products and immeasurable after sale support. Also AVOWAL (T) LTD goals are to become a source of original products and idea on complex software solutions. We are adopted on social responsibility, that while solving society problem also we are to build a next generation with power to adopt and renovate the existing complex software solutions. To the maximum of our IQ and partners will make sure we are providing reliable, quality and simple solution in ICT sector.

CHALLENGES AND SOLUTIONS

AVOWAL T LTD is awesome on the service providing to the customer and that challenge is the real feedback to renovate products and services provided on market. Providing solutions to customer feedback builds firm trust and customer can expand firm products and services market by sharing positive information and advocating the products and aftersales service. AVOWAL (T) LTD believes challenges and solutions is the market TV if handle in a positive and appreciation way, in other way challenge creates opportunity and solutions payback.

ZONAL MAPS



ZONAL HEAD OFFICE & WORKSHOP

DAR ES SALAAM, PWANI & MOROGORO	**DAR ES SALAAM**
TANGA, KILIMANJARO, ARUSHA & MANYARA	**ARUSHA**
DODOMA, IRINGA & SINGIDA.	**DODOMA**
LINDI, MTWARA & RUVUMA.	**MTWARA**
MBEYA , SONGWE, RUKWA & NJOMBE.	**MBEYA**
TABORA, KIGOMA, KATAVI & SHINYANGA.	**KIGOMA**
SIMIYU,KAGERA, MWANZA & MARA.	**MWANZA**
PEMBA & UNGUJA	**UNGUJA**

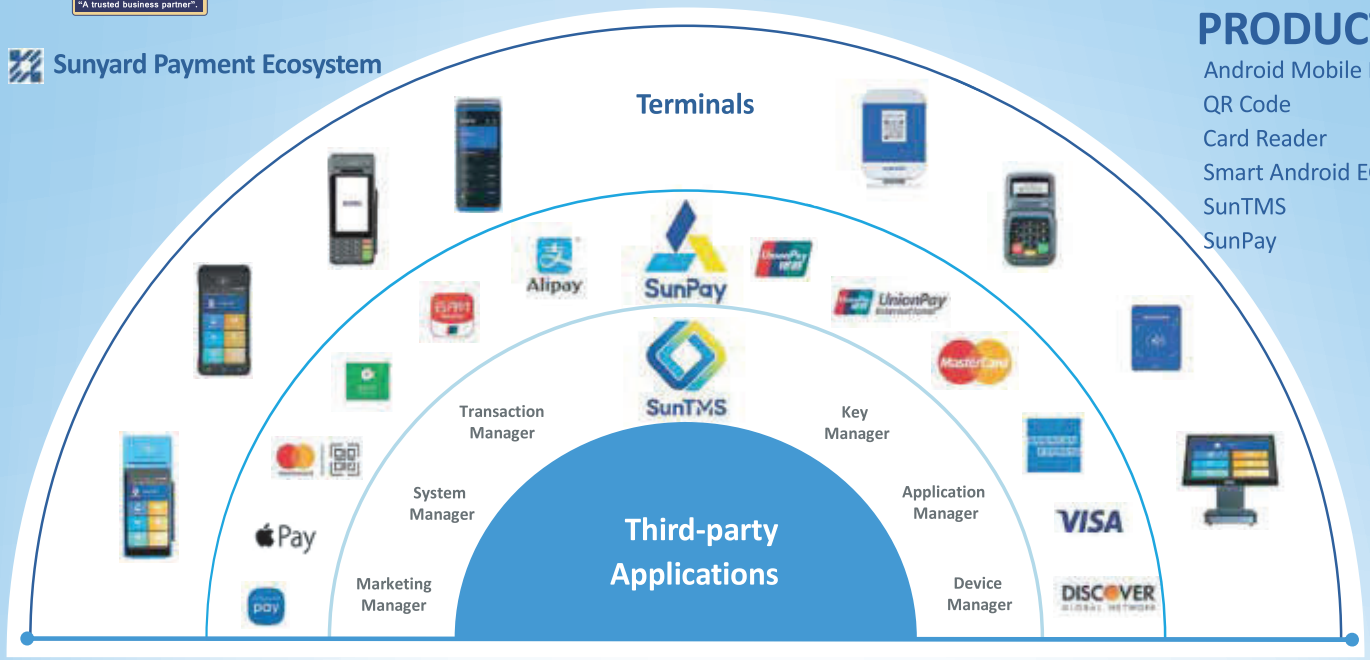
OUR PARTNERS

1. MAGNER INTERNATIONAL CORP (USA)
2. AMBWENE KONZO LTD (TANZANIA)
3. NATIONAL MICROFINANCE BANK (NMB-TANZANIA)
4. AMANA BANK (TANZANIA)
5. DIAMOND TRUST BANK (TANZANIA)
6. HANGZHOU SUNYARD TECHNOLOGY CO LTD (CHINA)
7. WINHAO ELECTRONICS CO LTD (CHINA)

SOME CLIENTS.

1. BAKHRESA FOOD PRDUCT LTD
2. MAWENI LIMESTONE LTD
3. TRC
4. ECO BANK
5. TANESCO
6. SACCOSS
7. DTB BANK

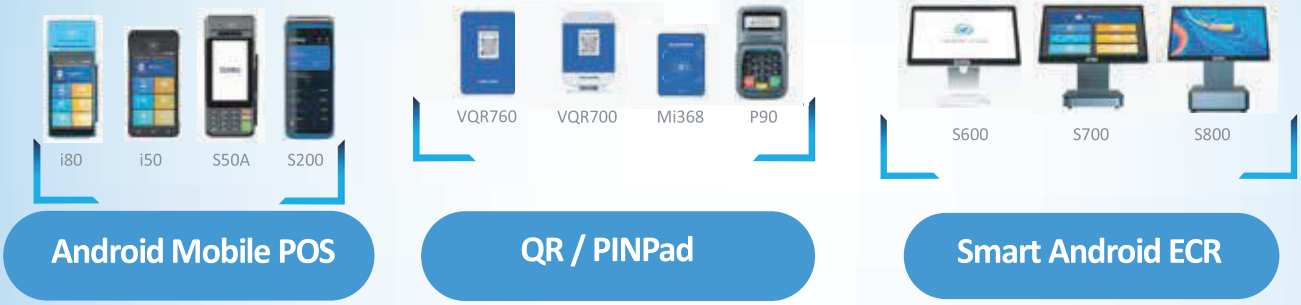
Sunyard Payment Ecosystem



PRODUCTS

- Android Mobile POS
- QR Code
- Card Reader
- Smart Android ECR
- SunTMS
- SunPay

Product Roadmap



PAYMENT SOFTWARE SOLUTIONS

SunPay - Android Payment Application

- Highly compatible and deeply flexible payment application based on the Android system.
- A variety of rich forms of payment scenarios and convenient value-added services.

SUNYARD

SPECIFICATIONS	S60 Keypad Version	S60 Full Screen Version
Operating System	Android 13	●
Processor	AP: Quad-core ARM-Cortex-A53 SP: ARMv7-M security core	●
Memory	16GB FLASH+2GB RAM 8GB FLASH+1GB RAM(Optional) Micro SD (TF card) up to 64GB	●
Display	4-inch 480 x 800 pixels Capacitive touchscreen	5-inch 720 x 1280 pixels Capacitive touchscreen
Physical Keys	10 x Numeric keys 5 x Functional keys 1 x Power on / off	1 x Power on / off
Printer	High-speed thermal printer Paper roll diameter: 40mm, width: 58mm	●
Card Readers	Magnetic Card Reader Track 1 / 2 / 3, bi-directional, ISO7810 / 7811 Smart Card Reader EMV L1 ISO 7816 asynchronous T=0 & T=1 Contactless Card Reader EMV Contactless L1 ISO/IEC 14443 Type A / B	●
Communications	4G / 3G / 2G Wi-Fi: 2.4G / 5G Bluetooth 5.0	IC card ●
Peripheral Ports	1 x SIM+2 x PSAM / 2 x SIM+1 x PSAM 1 x Micro SD / 1 x Type-C	●
Camera	0.3MP FF	●
Audio	Speaker	●
Security	ANSI X9.8 / ISO95 64, ANSI X9.9 / ISO8731 Master key / Session key Fixed and DUKPT PIN secure resolutions DES / 3DES / RSA / SHA-256 / AES algorithms	●
Power	Input: 100-240V AC, 50Hz / 60Hz Output: DC 5V / 2A	●
Battery	Li-ion battery, 7.2V/2600mAh	●
Certifications	PCI PTS 6.x EMV L1 & L2 EMV Contactless L1 MasterCard Contactless Visa payWave Discover D-PAS American Express RuPay Contactless BIS UPI TQM CE	●

Android Mobile Terminal

PCI DSS · EMVCo · mastercard · Visa payWave · DISCOVER

express pay · RuPay · BIS · UnionPay International · Mastercard TQM · CE

Sunyard Technology

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SUNYARD TECHNOLOGY

Sunyard Technology Co., Ltd established in 1999, is the global leading payment solution provider, offering cost-effective and superior quality payment terminals and financial software products including payment password systems, same-city liquidation solutions, corporate e-bank systems, risk alarm systems, etc.

As the earliest listed financial IT company in China (SSE Code: 600571), Sunyard has achieved the leading position in the field of the financial industry with more than two decades of professional experience. Based on its solid foundation in the domestic market and its long-term development strategy, Sunyard is committed to expanding international market.

Established	Listed	Stock Code	Total Staffs
in 1999	in 2002	600571	9,468+

Factory and Production Capacity

1 Factory

5000㎡+
Square meters factory

2 Capacity

Up to 10,000,000 sets
Production capacity per year

3 Quality

ISO9001 & TQM

Overall quality management assurance

4 Testing

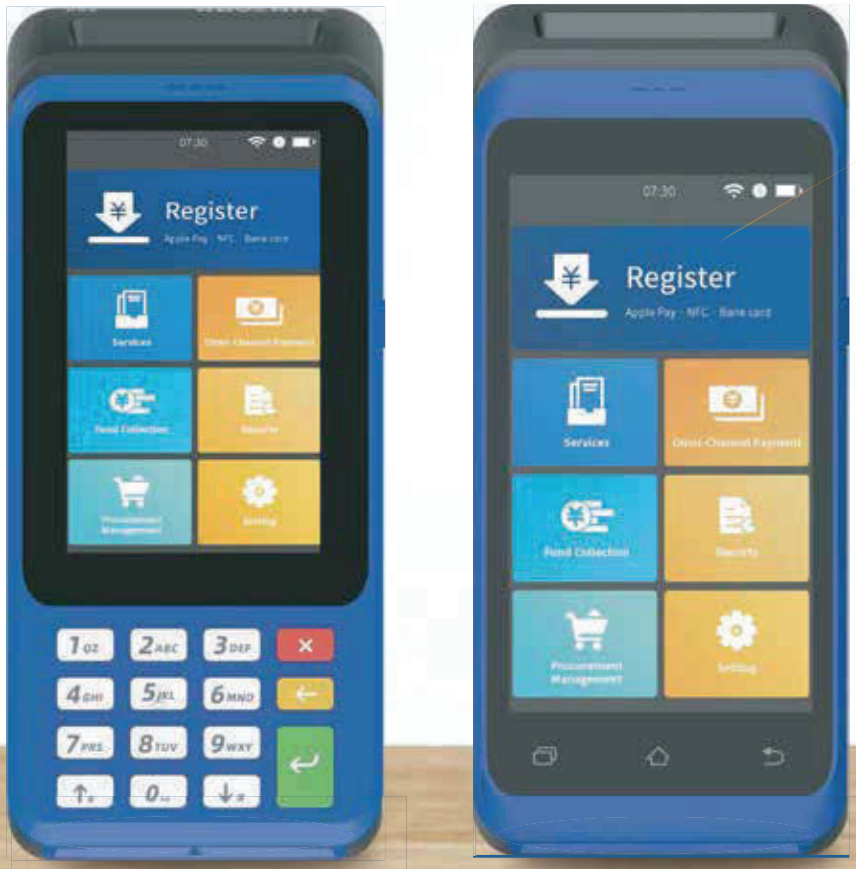
High Quality Control System

Quality is the priority at Sunyard
A more rigorous testing procedure

S60

SUNYARD

Android POS Terminal



Android 13

4" or 5" Touchscreen

7.2V/2600mAh

4G / 3G / 2G Wi-Fi / Bluetooth

Omni-channel Payment

PCI PTS 6.x

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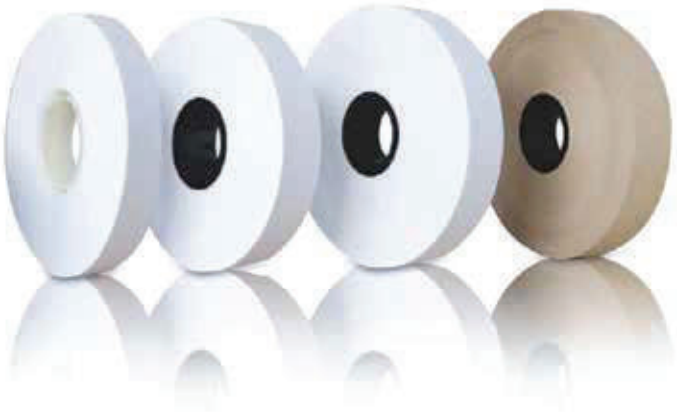
MAGNER®
International Corporation

MODEL NM-420

The Magner NM-420 is an automatic, heavy-duty strapping machine for commercial use. The Magner NM-420 requires no warm-up time and has a creative, user-friendly design. The heating temperature and the tension of the binding belt are adjustable with simple and easy to use controls. Utilizing high bundle tension, this machine can bundle banknotes as well as other items such as business cards, brochures, books, cards, documents and more. The Magner NM-420 is suitable for 20/30/40mm paper roll or OPP belt strapping, but can be customized for other sizes as well.

SPECIFICATIONS:

Characteristics:	Description:
Power Supply:	220V/50Hz or 110V/60Hz
Minimum binding range (WxH):	40(W) x 10(H)mm
Maximum binding range (WxH):	410(W) x 200(H)mm
Bundling Belt:	Paper or OPP belt
Binding Speed:	>2s/bind (26bundle/min)
Power:	160W
Tight strength of tape:	5-60N
Thickness Requirements:	0.05-0.12mm
Dimension(LxWxH):	56(L) × 49(W) × 30(H)cm
Net Weight:	33kg



MAGNER®
International Corporation

MAGNER NM-420

Android Mobile Terminal

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MODEL 125E

The NEW Magner 125E Currency Counter offers outstanding performance at an affordable price. The Model 125E is quiet, accurate, and easy to use. Compact, durable, and highly portable, the Magner 125E is an excellent currency counting solution.

SPECIFICATIONS:

Characteristics:	Description:
Applicable Currencies:	5 currencies (Maximum: 20 currencies)
Speed:	Value: 800,1000, 1 100 Notes/min Piece count: 1000, 1100, 1500 Notes/ min Serial Number Read
Hopper Capacity:	600 Notes
Stacker Capacity:	200 Notes
Feed System:	Friction Roller
Display:	4.3 inch TFT Touch Screen

Characteristics:	Description:
Detection:	Dual RGB CIS (Contact Image Sensors)
Thickness of Currencies:	0.05-0.12mm
Size of Currencies:	W: 100-175mm, H: 50-90mm
Dimensions:	280(W) x 310(D) x 280(H)mm
Weight:	6.4 kg
Power Supply:	110/220 V, 50/60Hz
Power Consumption:	60W

FEATURES:

Characteristics:	Description:
Counterfeit Detection:	Magnetic (MG), Magnetic Thread (MT), Ultraviolet (UV), Infrared(IR)
Features:	Auto recognition and mixed currency counting
Interface:	USB, RS232, RJ12,
Upgrade Available Via:	USB

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MODEL 1500

MAGNER®
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Our latest 2-pocket sorter Model 1500 expands on the trailblazing new "thousands" series from Magner. The Model 1500 assures Magner quality, detection, and reliable performance with the most compact footprint in the market. The Magner 1500 boasts comprehensive, state-of-the-art sensors, including the new, dual-CIS sensor with the ultramodern, proprietary "blink" technology for enhanced recognition & verification of counterfeit notes. The sleek touch screen and modern interface allow for easy navigation and efficient counting in all of the extensive user features.

SPECIFICATIONS:

Characteristics:	Description:
Applicable Currencies:	Support up to 20 currencies
Detection Speed:	Value:800/1000/1200 notes/min
	Piece count: 800/1000/1200 notes/min
	Serial Number Reading: 800/1000 notes/min
Hopper Capacity:	600 Notes
Stacker Capacity:	200 Notes
Reject Capacity:	100 Notes
Feed System:	Friction Roller
Display:	4.3inch Touch Capacitive Screen

Characteristics:	Description:
Denomination Detection:	Dual RGB CIS (Contact Image Sensors)
Thickness of Currencies:	0.05-0.12mm
Size of Currencies:	W: 100-175mm H: 50-90mm
Dimensions:	270(W) x 290(D) x 270(H)mm
Weight:	Net: 9.5kg
Power Supply:	AC 110/220V, 50/60Hz
Power Consumption:	50W

FEATURES:

Characteristics:	Description:
Counterfeit Detection:	Dual RGB CIS (Contact Image Sensors), UV (ultraviolet), MG (magnetic), MT (magnetic thread), IRR & IRT(infrared)
Connectivity:	RS-232/RJ12/USB(Upgrade)

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MODEL 2000

The brand new Magner 2000 is a reliable, versatile and user friendly 1.5 pocket banknote sorter. The Magner 2000- utilizes the most trusted methods of counterfeit detection on the market, including new modern innovations to meet the current and future needs of the user. The ultra-visible 4.3-inch touch display gives the operator incredible detail and authority over each banknote counted.

SPECIFICATIONS:

Characteristics:	Description:
Applicable Currencies:	Maximum 50 currencies
Counting Speed:	Value Counting: Max. 1,200 Notes/min Fitness Sorting: Max. 1,200 Notes/min
Hopper Capacity:	500 Notes
Stacker Capacity:	250 Notes
Reject Capacity:	100 Notes
Feed System:	Friction Roller
Display:	4.3" Full Color LCD (480 x 272)

Characteristics:	Description:
Denomination Detection:	Visible Reflection (Front and Rear)
Thickness of Currencies:	0.03-0.15mm
Size of Currencies:	W: 60-185mm H: 50-120mm
Dimensions:	460(L) x 400(W) x 420(H)mm
Weight:	Net: 12.5kg Gross: 13.5kg
Power Supply:	100/240V, 50/60Hz
Power Consumption:	150W

FEATURES:

Characteristics:	Description:
Counterfeit Detection:	Dual CIS (Contact Image Sensors), UV (Ultraviolet), Full line MG (Magnetic), IRT (Infrared Transmission), IRR (Infrared Reflection, Front and Rear), TDS (Tape, Detection Sensor)
Serial Number Recognition:	1,200 notes/min
Connectivity:	Serial Communication & USB Communication (External LCD Display, Serial Printer), LAN & SD card (PC Communication, Upgrade)
Includes:	Multiple Currency Detection, Auto Currency Detection
Optional:	External Display, External Printer, Banknote Sterilizer (Ionizer)

MAGNER®
International Corporation

MODEL 3500

The Magner 3500 is a multi-pocket banknote counter and sorting solution. Designed for mixed denominations, the adjustable counting speed allows counting of both new and unfit banknotes with several sorting features. The Magner 3500 includes a touch screen interface, user friendly operation, and easy maintenance.

SPECIFICATIONS:

Characteristics:	Description:
Applicable Currencies:	Maximum 100 currencies
Counting Speed:	Value Counting: Max. 1,200 Notes/min Fitness Sorting: Max. 1,200 Notes/min
Hopper Capacity:	1000 Notes Max.
Stacker Capacity:	3 x 250 Notes (Max.)
Reject Capacity:	150 Notes (Max.)
Feed System:	Friction Roller
Display:	7inch TFT LCD Touch Screen Display

Characteristics:	Description:
Denomination Detection:	Visible White Reflection (Front and Rear)
Thickness of Currencies:	0.03-0.15mm
Size of Currencies:	W: 60-185mm H: 50-120mm
Dimensions:	340(W) x 460(D) x 560(H)mm
Weight:	Net: 25kg Gross: 30kg
Power Supply:	100/240V, 50/60Hz
Power Consumption:	150W

FEATURES:

Characteristics:	Description:
Counterfeit Detection:	Dual CIS (Contact Image Sensors), UV (Ultraviolet), Full line MG (Magnetic), IRT (Infrared Transmission), IRR (Infrared Reflection, Front and Rear), TDS (Tape, Detection Sensor)
Serial Number Recognition:	1,200 notes/min
Connectivity:	LAN, SD Card(Upgrade), RJ45, USB Communication
Includes:	Multiple Currency Detection, Auto Currency Detection
Optional:	External Display, External Printer, Banknote Sterilizer (Ionizer)

OTHERS

INCOTEX 300Sm

INCOTEX 118F

ESD & EFP

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MAGNER 2000 series.

Introducing the next benchmark in cash Counting,

MAGNER 2000 series.

Our new 2-pocket sorter MAGNER 2000 has been designed and constructed to meet every requirement and exceed all expectations. The result of 5-years of innovation and artistry, the MAGNER 2000 boasts ultramodern features including:

Dust Cover (activatable)

Internal memory (an archive of information about each individual transaction of the machine up to 1-year)

Multi-currency and Auto-currency counting modes

Heavy-duty construction (100% made in Korea, with only rollers and no bands)

State-of-the-art counterfeit detection and verification by Dual CIS, Full-line MG, IRT, IRR, UV, VWR

Serial number reading & comparison

Large touchscreen color LCD display

Multi-user capability, LAN & SD card capability

Connectivity (USB or Serial), Ionizer (*optional

MAGNER 3500

POS S60

Android POS Terminal

INCOTEX 133M

EFD'S & VFD'S

VFD PRITER

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For 40 years, Triton ATMs have set the standard in innovative cash-dispensing solutions. ARGO FT features an updated, next-generation design with added elements of a larger screen, PCI5 keypad and a touchscreen. Available in both walk-up through-the-wall and drive up configurations, these ATMs are a low-cost option for any financial institution. Triton is known for our dedication to security. All our models run on Windows CE™, an embedded platform that Triton has tailored for added protection from fraud, malware and jackpotting. Other security measures include MACing, SSL/TLS and a firewall

Available with a UL291 certified business hour or Level 1 safe, the ARGO FT comes standard with an electronic lock, or a Kaba Mas™ Cencon lock option. ARGO FT is ADA, EMV, and PCI 5 compliant with optional Triton Key Management, anti-skim card reader, NFC and more.

ARGO FT with CDM8240N Dispenser

ARGO FT with
CDM8240N
Dispenser

Camera	Option
Card Reader	Dip EMV standard, optional Anti-Skim Dip EMV, NFC, Motorized EMV
Cassettes	2 or 3 option
Lock	Electronic Kaba Mas Cencon Option
Communication	TCP/IP with SSL Dial Modem option
Signage	Customizable LED Backlit Signage
Additional Features	Triton Connect option High Security Lock option Rear Service Lock Option Heater Option
Dimensions	Drive Up, Thin Wall 61.1 H x 22.6 W x 34.5 D Drive Up, Thick Wall 61.1 H x 22.6 W x 40 D Walk Up, Thick Wall 61.1 H x 22.6 W x 40 D Weights 315lb – 724lb

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SECURITY

Triton understands how incredibly important security is to your business, so we make it our business to ensure that Triton ATMs have the best security possible. Increased risks make it difficult for the industry to stay ahead of the criminal element. Therefore, we'd like to take a moment to review all the changes and upgrades we've been working on to keep your ATM portfolio safe, and to make sure that you're taking advantage of these security features.

Triton Security Statement

Enhanced Control Panel

Keep Your ATM Secure

Entails a more robust double CAM locking mechanism. This ensures that if an attempt is made to break into the cabinet, the damage will be easily seen.

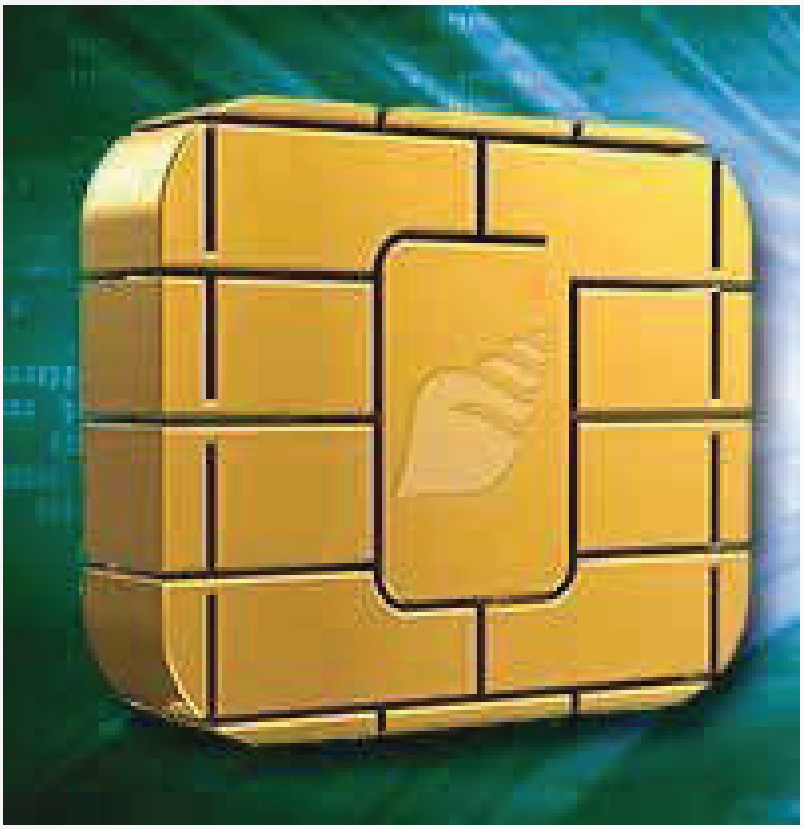
Windows CE™

Keep Your ATM Secure

There were many factors considered while assessing platforms to power the operating system of Triton ATMs. The decision was to go with Windows CE for several reasons;
CE uses less computing resources, meaning lower-cost hardware, without sacrificing functionality. As a result of the low cost, Triton can offer our customers standard software updates at no charge.
Windows CE is an embedded platform so it can be easily tailored to specific requirements and functionality.
Triton has access to much of the CE operating system source code and can provide updates beyond Microsoft™ support.
The majority of security updates provided by Microsoft are for Internet Explorer issues. Triton ATMs do not use Internet Explorer (Microsoft Edge™) and it is removed from our customized operating system.
Triton ATMs currently run a proprietary, locked-down version of Microsoft Windows CE. The operating system is customized by Triton to add additional security beyond what is provided by Microsoft.
Triton ATMs are locked down by not providing any access to the OS or internal storage except through our ATM software interface. Software can only be installed by loading a software update which must be digitally signed by Triton.
Triton ATMs use the Windows CE "Trusted Environment" to verify the authenticity of all software. Every component is signed with Triton's private key which must be verified by the operating system before executing. In this manner, the ATM is protected from executing software not created or approved by Triton.
As part of the Triton customization, all system tools have been removed from the operating system that an attacker might use to access or manipulate the system, including File Explorer, Windows Desktop, Internet Explorer, Command Shell, ActiveSync, and Remote Desktop.
Triton regularly monitors all security updates provided by Microsoft. To date, Triton has never had to install a Microsoft provided update for any security reason. Triton will continue to monitor our ATMs for security issues beyond support by Microsoft and provide updates.
In the event a security issue is identified on an operating system that is no longer supported by Microsoft and cannot be addressed by Triton, an upgrade path to a newer operating system version will be provided. This upgrade could include a hardware upgrade as well. Costs for any hardware/software updates will be determined at that time.

EMV

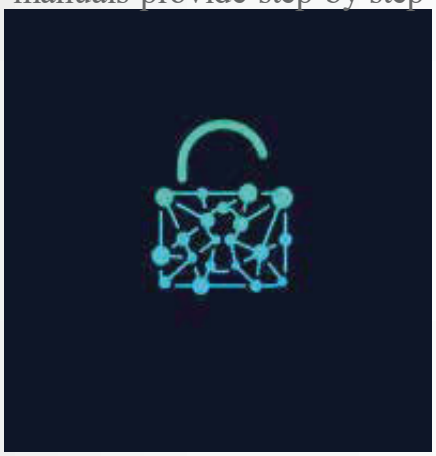
Keep Your ATM Secure



Triton developed EMV upgrade kits for our legacy products including RL2000, RL1600, RL5000 X1, X2 and X3, FT5000 X1, X2 and X3, RT2000 X1, X2 and X3 (10.4” LCD only), 9100, 8100, 9700, and 9600. Our current product line of ARGOs, Traverse and ARGO FT are standard with EMV and fielded units also have upgrade paths to support EMV.

Bolting the Cabinet
Keep Your ATM Secure

Physical security requires that the ATM be bolted securely to the floor. Triton installation manuals provide step by step instructions for proper bolting.



High Security Locks
Keep Your ATM Secure

High security locks have unique keys for each lock and are pick resistant to UL437.

Triton Part Number 06100-08029 is configurable for high security locks for ARGO, ARGO FT, Traverse, FT5000, RL5000, 8100, RL2000, RT2000, RL1600, 9700, 9100. These locks can be ordered in any number of unique keyed solutions (a unique set of locks for all your ATMs, for select customers, or even down to the ATM level). All manufacturers have default keys that work on all their ATMs. High security locks are the first line of defense to keeping your ATM secure.

Cabinet Fortification
Keep Your ATM Secure

3

Triton's process includes making a more robust double CAM locking mechanism. The rules of APN stipulate that damage must be visible if entry is attempted to the ATM.

Denomination Change

Keep Your ATM Secure

Triton ATMs require access to the cash vault to modify the denomination setting. This prevents an attacker from changing the denomination to a smaller amount than what is actually in the dispenser. Information is also logged to the ATM journal during a denomination change to indicate if a failure occurred, as well as the user who was logged in at the time.

Secure Socket Layer (SSL)

Keep Your ATM Secure

Like MACing, SSL/TLS also provides a method for the ATM to authenticate the host and additionally provides encryption and integrity between the Host and the ATM connected via TCP/IP (either hard wired, or with a wireless communication box). You will need Triton software version 2.4.0 software or later for the ATM to be SSL capable. The Host/Processor will provide you with configuration information to allow you to set up your ATM to communicate SSL with their network. Additional certificate updates may need to be loaded on the ATM because of Triton's validation of certificate authority and dates (confirm with your host processor).

If the ATM does not verify that the certificate was issued by a trusted authority, then the ATM does not authenticate the host, and an attacker can insert themselves between the ATM and the host as a man-in-the-middle, or the attacker can stand-in as a fake host. Unbeknownst to the card-holder, the attacker can eavesdrop on all communications, for example capturing the card's track-2 data. And if no other authentication technique is employed (such as MACing), the attacker can also modify the communications, such as changing the transaction's dollar amount or converting a declined result to approved. It can be argued that there is no risk of an attacker inserting themselves, that's why SSL is being used in the first place — the very use of SSL is an admission of the risk of a malicious interloper.

Anyone can generate their own certificate, containing any arbitrary data. It takes just a few seconds using the free software OpenSSL. If an ATM does not verify that the certificate is current and was issued by a trusted authority, then the ATM cannot differentiate an attacker's bogus certificate from a host's legitimate certificate. Triton has been told by our customers that this feature makes a Triton more difficult to operate in the field. Security is not always convenient. When making decisions between convenience and security, Triton will always err on the side of security. We hope that our customers understand this as we work to keep your portfolio safe.

MACing

Keep Your ATM Secure

MAC stands for Message Authentication Code, which provides a method to be certain that messages between the ATM and the host are authentic and unmodified, thus preventing man-in-the-middle attacks and bogus hosts or ATMs. The first step is to contact your Host/Processor to verify if they support MACing. The Host/Processor will provide MAC Master Keys that must be loaded at the ATM just like PIN Master Keys are loaded. A Key Download is performed at the ATM and MAC Working Keys are sent from the Host/Processor to the ATM. The Host/Processor can then enable MACing.

Avowal
"A trusted business partner".

CONTACT US

Livingstone / Kipata Street, Plot no. 60 Yellow mark No.9,
Kipata Street Mazzanine floor, P.O.Box 40060
Dar es salaam,Tanzania

:+255 22 2181900, :+255 758 950950 / +255 714 576920

:info@avowal.co.tz /:support@avowal.co.tz

:www.avowal co.tz

Software and Security Updates

Keep Your ATM Secure

Check that you have the most current software version running on your ATM fleet. Triton periodically releases new software versions for all of our ATM models that include feature enhancements, as well as vital security updates to protect your investment. These updates are easily found on our website, just follow the instructions. If you have Triton Connect, you can load/update software remotely. Additionally, unlike traditional Financial Institution ATM manufacturers, software only updates from Triton are available free of charge, and all coding is written and tested in our America-based labs.

Malware and Jackpotting
Keep Your ATM Secure

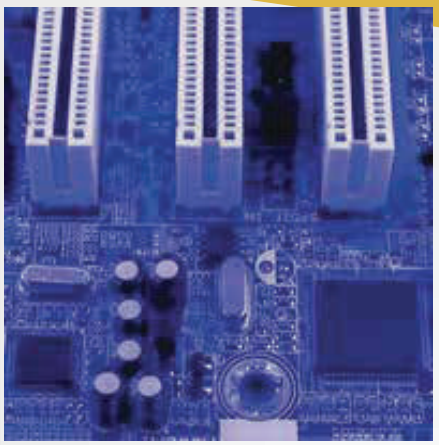
Two lines of defense prevent unauthorized software from making its way onto Triton ATMs. Both lines of defense use the same technique, namely the ATM verifies that the software has been digitally signed by Triton using Triton's private key. If the digital signature is incorrect, then the ATM does not accept the software. This ensures that only legitimate software, authorized by Triton, can run on the ATM.

1. Before a software update is installed, the ATM verifies the load file's signature, and only proceeds with the installation if the signature is correct.
2. The ATM uses the Microsoft Windows CE operating system's Trusted Environment which verifies the signature of every program before it is allowed to run. An attacker cannot generate a correct signature, because only Triton holds Triton's private key. Thus, malware cannot be imported into the ATM because the encapsulating load file's signature would be incorrect. Malware cannot run on the ATM because Windows CE's Trusted Environment would not execute a program whose signature is incorrect.

Firewall

Keep Your ATM Secure

3. Triton's ATMs include a firewall to block unwanted communications on the ATM's TCP/IP connection. The firewall defends against malicious attempts to remotely access the ATM. It also helps the ATM to pass a PCI DSS vulnerability scan. You can verify the settings for firewall in the management functions.

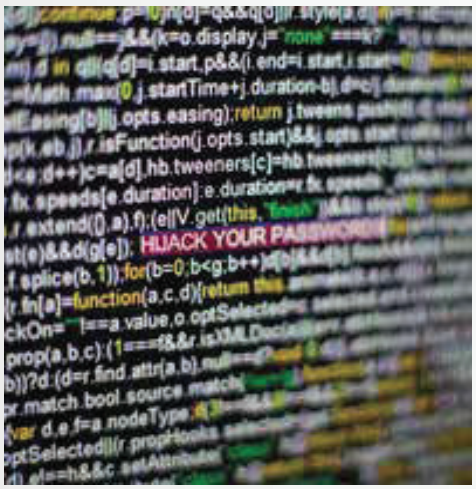


PCI 3.1 / 5
Keep Your ATM Secure

In May 2020, PCI will no longer certify standard PCI PTS POI v3 device certificates designed to strengthen security and reduce compromise of Point of Interaction (POI) devices. Beginning Q1 2020, all new Triton ATMs will ship with our PCI 5 certified keypad, the T10.

Triton follows the letter of the law for PCI. For a Triton ATM, a tamper, resulting from removing the keypad cannot be reset without dual access to the Triton partner site to then go through the process Triton has set for reactivation.

Some manufacturers may have settings in management functions that allow keypads to be removed without tampering. We believe this is a potential security risk and may not meet PCI as intended. You should verify with your manufacturer that they do not allow this in the field.



Default Password
Keep Your ATM Secure

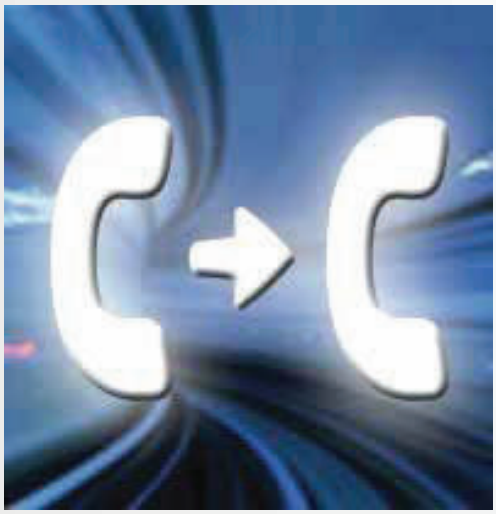
Make sure to change management passwords periodically and keep control of them in a secure environment. It's also a good business practice to change them when technicians leave. This includes Management Function passwords (Master, Admin, Users), EPP User 1 and User 2 Passwords, and EPROM Access Codes on Z180. Note that the ATM will not go in service until default passwords are changed.

Triton Key Management (TKM)

Keep Your ATM Secure

TKM uses cryptography to allow Master Keys to be loaded remotely from a host to an ATM over a public network. This will allow the keys to be changed more often and will not require a site visit to load keys once TKM is enabled. The Host must support TKM, the ATM must have version 2.4.0 or later software, as well as a T5 PCI Keypad with Firmware R2B or later, or a T9, T10 PCI Keypad. In addition, the Host provides a Host ID, and TKM must be enabled on the ATM.

With upcoming PCI 5 keypads, the host must support SHA 2 in order to also support TKM. Check with your Host for support timelines. This allows ATM owners, especially those with large ATM portfolios or those that operate in markets that require that master keys be changed frequently, to save time and money while improving security. TKM verifies the host ID that Triton issues to each host. This keeps impersonator or rogue hosts from loading the attacker's keys to the ATM.



PCI 3.1 / 5

Keep Your ATM Secure

Call Back is an option in the Triton Connect set up on the ATM. If Call Back is enabled, when Triton Connect contacts the ATM, the ATM will hang up and call Triton Connect back before data is exchanged. This feature is designed to prevent unauthorized systems from contacting your ATM through the communication line. This function is always enabled when using SSL and when performing a software download.

Advanced Security Module
Keep Your ATM Secure

With the release of the ARGO product line in 2013, Triton introduced a new security module to improve the security of communications between the ATM's mainboard and cash dispenser. The Advanced Security Module (ASM) and updated software are available for legacy ATMs as well. Triton strongly suggests that this hardware/software upgrade be loaded on all your machines to help defend against man-in-the-middle attacks between your ATM's mainboard and dispenser.

The Triton ASM uses a software key to secure the communication traffic between the mainboard and the security module which resides in the safe with the dispenser. The software key is unique per ATM using a key exchange between the ASM and the mainboard of the ATM. Initiating the key exchange requires Master User credentials for the specific ATM as well as access to the vault. Synchronization is required anytime the mainboard or the ASM are replaced.

Anti-Skim Card Reader
Keep Your ATM Secure

Skimming devices can be added to card readers so quickly they can easily go unnoticed. Triton's anti-skimming device works by detecting metal near or on the card reader. If metal is detected, the ATM automatically goes out of service, logs the event in its journal, and advises Triton Connect. When the skimmer is removed, the ATM automatically recovers. The anti-skim card readers also employ;

Magnetic Field Interference in which a jamming signal is emitted to disrupt a detected skimmer's reading of a magnetic stripe.

Encryption at Magnetic Head – Magnetic stripes are encrypted at the very first point at which they are read, defending against a skimmer inside the ATM's cabinet. Encryption of EMV Chip Card APDU – Data exchanged with an EMV chip card is encrypted on the card reader's cable, defending against a skimmer inside the ATM's cabinet.

Camera
Keep Your ATM Secure 3

Installing a camera to help deter thieves at your ATM location is an option. All ARGO ATMs are equipped with a camera mount housed in the control panel.

Close Out Plates
Keep Your ATM Secure

Triton released the Close Out Plate Kit for legacy ATMs in 2014, which will ensure that the openings on your ATM are sealed tight. When adding the close out kits, the cables also need to be rerouted. The number of kits required depends on the business hour cabinet or level one vault in question. The ARGO was designed to eliminate these risks and does not need upgrading.

	Note Width	55 mm ~ 85 mm
	Note Thickness	0.06 mm ~ 0.18 mm
Note Feeding Method		Friction
Note Dispensing Type		Bulk Dispensing
Dispensing Speed		7-8 notes/second
Single maximum number of notes dispensed		50 notes
Dispenser Configuration		Rear service
Dispenser Weight	CDM8240N short presenter	Dispenser weight with 2cassettes: 68.34 lbs. (31kg). Dispenser weight with 3cassettes: 87.74 lbs. (39.8 kg).
	CDM8240N long presenter	Dispenser weight with 2cassettes: 69.88 lbs. (31.7 kg). Dispenser weight with 3cassettes: 89.28 lbs. (40.5 kg).

Electrical & Communication

Item		Specification
Power Supply	Input Voltage	DC 24 V; (Min: 20 VDC, Max: 26.4 VDC)
Communication Interface		RS-232

Performance Specification

Cassette	Number of Cassettes	2 or 3
	Cassette Capacity	2800 ATM Fit Notes (15 inches, 381 mm)
	Low Currency	Cassette Low Level Sensor
	Security Feature	Mechanical key lock and plastic seal
Media Specific	Note length	110 mm ~ 182 mm

Configuration	Thick Wall – Walk-Up and Drive-Up Kiosk Wall – Drive-Up
Display Size	15” (381 mm) Sunlight-Readable Touch-Screen Customer Display Rear Service Panel with 7” Touch Screen Display
Screen Graphic and Print Receipt Sizes	Screen Graphic and Print Receipt Sizes
Touch Screen	Yes
UL291 Certification	Business Hours or Level 1 Option
Mainboard	Windows® CE®
Printer	80mm Printer Presenter
Keypad	ADA Compliant, PCI 5 Compliant Triton Key Management Option

Compliance/ Upgrades	EMV Standard
	PCI 5 Standard
	ADA Standard
	X3 Standard
	NFC Option
	AntiSkim Card Reader Option

“A trusted business partner”.

AVOWAL (T) LTD

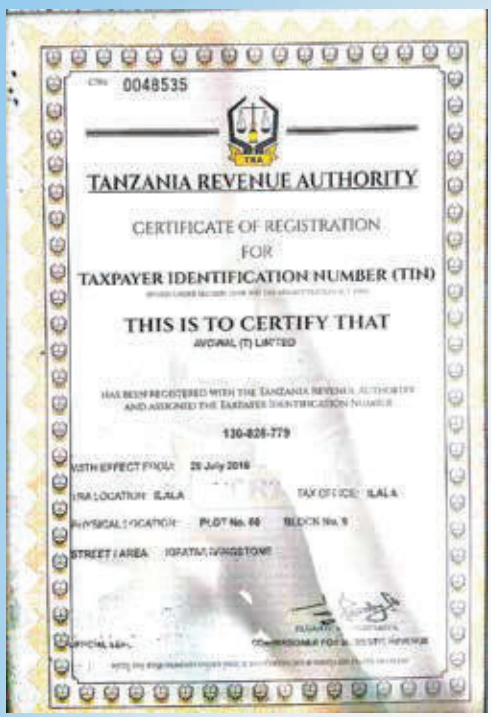
ATM SPECIFICATIONS CATALOGUE

THE ORIGINAL RETAIL ATM

ARGO FT with CDM8240N Dispenser

LIVINGSTONE / KIPATA STREET PLOT NO. 60 YELLOW MARK NO.9,
KIPATA STREET MAZZANINE FLOOR, P.O.BOX 40060 DAR ES SALAAM, TANZANIA
:+255 22 2181900 /:+255 714 576920 / :+255 758 950950
:info@avowal.co.tz /:support@avowal.co.tz
:www.avowal co.tz

Certification & Licence



0048535

TANZANIA REVENUE AUTHORITY

CERTIFICATE OF REGISTRATION
FOR
TAXPAYER IDENTIFICATION NUMBER (TIN)

THIS IS TO CERTIFY THAT
AVOWAL (T) LIMITED

130-826-779

TANZANIA REVENUE AUTHORITY

Certificate of Registration
for
Value Added Tax (VAT)

THIS IS TO CERTIFY THAT
AVOWAL (T) LIMITED

WHOSE TAXPAYER IDENTIFICATION NUMBER (TIN) IS
130-826-779

HAS BEEN REGISTERED FOR VALUE ADDED TAX (VAT)
AND ASSIGNED VAT REGISTRATION NUMBER (VRN)

WITH EFFECT FROM 18 July 2018

GIVEN UNDER MY HAND

THIS 18th DAY OF July 2018

COMMISSIONER FOR VAT

TANZANIA

Certificate of Incorporation

Section 15

No 127464

I HEREBY CERTIFY THAT

AVOWAL (T) LIMITED

is this day incorporated under the Companies Act, 2002 and that the Company is Limited.

Given under my hand at Dar es salaam

this 27TH day of JUNE

TWO THOUSAND AND SIXTEEN.

Sgd. Ann. Registrar of Companies

Form 5

No : 225560

THE UNITED REPUBLIC OF TANZANIA

Certificate of Registration

The Business Names (Registration) Act (Cap 213)

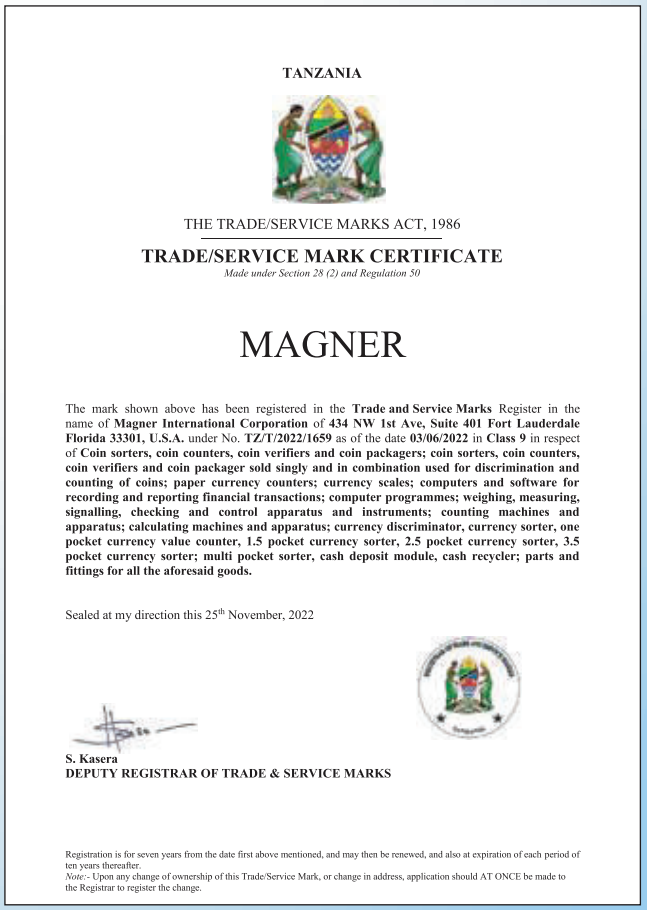
I HEREBY CERTIFY THAT AVOWAL GENERAL SUPPLY

this 16TH day of AUGUST 2011 has been duly registered pursuant to and in accordance with the provisions of the Business Names (Registration) Act and the Rules made thereunder, and has been entered the Number 225560 in the Index of Registration.

GIVEN under my hand at Dar es salaam this 17TH day of AUGUST TWO THOUSAND AND ELEVEN

Deputy Registrar of Business Names

NOTE :- This certificate must be kept in a conspicuous position at the principal place of business. Any change in the particulars originally registered must be notified to the Registrar within twenty- eight days



TANZANIA

THE TRADE/SERVICE MARKS ACT, 1986

TRADE/SERVICE MARK CERTIFICATE

Made under Section 28 (2) and Regulation 50

MAGNER

The mark shown above has been registered in the **Trade and Service Marks** Register in the name of **Magner International Corporation** of **434 NW 1st Ave, Suite 401 Fort Lauderdale Florida 33301, U.S.A.** under No. **TZ/T/2022/1659** as of the date **03/06/2022** in **Class 9** in respect of **Coin sorters, coin counters, coin verifiers and coin packagers; coin sorters, coin counters, coin verifiers and coin packager sold singly and in combination used for discrimination and counting of coins; paper currency counters; currency scales; computers and software for recording and reporting financial transactions; computer programmes; weighing, measuring, signalling, checking and control apparatus and instruments; counting machines and apparatus; calculating machines and apparatus; currency discriminator, currency sorter, one pocket currency value counter, 1.5 pocket currency sorter, 2.5 pocket currency sorter, 3.5 pocket currency sorter; multi pocket sorter, cash deposit module, cash recycler; parts and fittings for all the aforesaid goods.**

Sealed at my direction this 25th November, 2022

S. Kasera
DEPUTY REGISTRAR OF TRADE & SERVICE MARKS

Registration is for seven years from the date first above mentioned, and may then be renewed, and also at expiration of each period of ten years thereafter.
Note:- Upon any change of ownership of this Trade/Service Mark, or change in address, application should AT ONCE be made to the Registrar to register the change.

THE UNITED REPUBLIC OF TANZANIA

BUSINESS LICENSE

B L. NO BL01396902025-2600022543

The Business Licensing Act (Act No. 25 of 1972)

License Details

Issuing Office:	DAR ES SALAAM CITY COUNCIL
Tax Identification No:	130-828-779
License Issued To:	AVOWAL (T) LIMITED
For the Business of:	SUPPLY OF ICT EQUIPMENT
Business Licensing:	RENEWED LICENSE
Date of Issue:	2025-11-21
Expiring Date:	2026-11-20
Principal/Branch:	PRINCIPAL

Business Location

Region:	Dar es Salaam
Ward:	Gerezani
Street:	Gerezani Mashariki

Payment Details

Amount of Fee Paid:	300,000.00

This digital copy does not require a signature of authority

CONDITIONS & NOTES:

1. This license shall be conspicuously displayed at the place of business
2. Renewal applications must be submitted within 21 days of the license expiry; Otherwise, penalties begin at 25 % of the license fee and rise by 2 % for each additional month, up to 47 %.

CTIN: 1500137

ISO 9001:2008 Certified

TANZANIA REVENUE AUTHORITY

CERTIFICATE OF REGISTRATION

FOR

TAXPAYER IDENTIFICATION NUMBER (TIN)

(ISSUED UNDER SECTION 133 OF THE INCOME TAX ACT NO. 11 OF 2004)

THIS IS TO CERTIFY THAT

MBOGOLO MLEKWA KUSHAHA

T/A AVOWAL GENERAL SUPPLY

has been registered with the Tanzania Revenue Authority and assigned the Taxpayer Identification Number

114-392-731

with effect from 24-08-2011

P. N. Kassera

COMMISSIONER FOR DOMESTIC REVENUE

OFFICIAL SEAL

THE UNITED REPUBLIC OF TANZANIA
MINISTRY OF HOME AFFAIRS
TANZANIA POLICE FORCE

TELEGRAMES: **DFB**
PHONES: **2110006**
EMAIL:forensichq@tpf.go.tz

FORENSIC BUREAU,
P.O.BOX.9O94,
DAR ES SALAAM,
TANZANIA.

REF: **FB/FP/G.4/2024/VOL.V/3862**

Date: 17/05/2024

TO WHOM IT MAY CONCERN

SUB: POLICE CLEARANCE CERTIFICATE

This is to certify that the search of fingerprints of **MBOGOLO MLEKWA KUSHAHA,** to trace criminal antecedents, has been made in the collection of fingerprints of persons whose convictions are registered here to date, but with a negative result.

SEMENI I. KABELWA - A/INSP
FINGERPRINTS OFFICER APPOINTED
UNDER SEC. 141 (2) OF THE CPA

FORENSIC BUREAU
DAR ES SALAAM

The date of expiration is : 17/11/2024

"A trusted business partner".

AVOWAL (T) LTD

Company Profile

CONTACT US

Livingstone / Kipata Street, Plot no. 60 Yellow mark No.9,
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