



AI Cardz Group

Hong Kong Domiciled Company
Business Registration: 57918551-000

Web: www.ai-cardz.com

Email: chris@aitrustcards.com

CEO and Presenter: Christopher Burke, HK Resident for more than 20 years

Why AI Cardz and What Benefits for Hong Kong?

Hong Kong gains a reputation as a technology leader and achieves accolades for cutting-edge sovereign AI companion technology, available for Hong Kongers, tourists, citizens, retailers, and long-term visitors.

AI Cardz products are available through specialist retailers, schools, institutions, shopping malls, and online stores. Future integration into ornaments and collaborations with Disneyland, HK Jockey Club, banks, and major corporations for personalisation with famous brands is already in development.

AI Cardz is customisable — as compared to mobile phones, which are not always able to use NFC functions as desired, nor offer any meaningful personalisation. AI Cardz fills a void in the global market by providing customisable sovereign AI technology within a **50+ billion user card marketplace**.

Tourists and citizens can keep their AI Cardz in their wallet, purse, luggage, hand carry, or with their spouses, children, elderly, or companions — tracking friends, family, valuables, pets, cars, bicycles, or commercial vehicles.

Hong Kong must focus on next-generation sovereign AI and strive to become a visionary technology hub. AI needs use-cases to fulfil its true potential. AI Cardz sees AI Agents as the future — with billions of intelligent digital entities requiring physical infrastructure. AI Cardz provides that infrastructure, utilising data and information from 50+ billion cards and ambient hubs into a structured, sovereign intelligence platform.

AI Cardz promotes the Hong Kong city skyline on its products.

Hong Kong Octopus Integration

Hong Kong Octopus prioritises customer security, safety, and peace-of-mind, offering integrated AI Cardz solutions that allow parents to track children whilst allocating daily cash allowance for transportation and food. Everything a child needs on a single card, carried securely around their neck or attached to their hand carry.

Adult and Elderly AI Cardz offer enhanced identification security and transit discounts, with more digital security and certainty for users and system operators.

Hong Kong Octopus leads the global technology field for smart transportation. The ASEAN Transit Alliance — combining Singapore, South Korea, Taiwan, China, Philippines, Thailand, Indonesia, Australia, Vietnam, and India — promotes Hong Kong technology to the world.

Hong Kong Octopus first implemented NFC in the late 1990s and remains a leader in transit systems with significant user take-up, acceptance, and trust. Octopus wants to remain a technology leader and innovator. Together with AI Cardz, the next-generation sovereign AI companion platform is now available.

The global card market contains 50+ billion cards, increasing annually — the largest technology product deployment by volume in the history of mankind.

What Are AI Cardz Patents & IP?

AI Cardz holds Hong Kong approved patents and global pending patents:

Patent	Status
HK30117667	Granted — priority date 15 April 2024, published 16 May 2025
China	Allowed — Claims 1–7 fully equipped with novelty and inventiveness
USA	Pending
Europe	Pending
PCT	Global filing in progress

Total: 7 Patent Families and Growing

CEO Christopher Burke received HKPC HK\$250,000 (PAG) (PG/067/24) Patent Application Grant. The first 7 patents deemed 'novel and inventive' are significant results rarely achieved, with over 100 pages of patent descriptions filed.

Search Examination Report

- **Search Name:** A System that Facilitates Transactions between Battery-free Credential Devices and Service Provider Systems
 - **Application Number:** 32024090105 · 0
 - **Applicant:** Christopher John BURKE
 - **Application Date:** 25th June 2024

China National Intellectual Property Administration (CNIPA) — Conclusion of Examination

- **Claims 1–7** fully equipped with novelty, in accordance with Article 22, Paragraph 2 of the Patent Law of the People's Republic of China
 - **Claims 1–7** fully equipped with inventiveness, in accordance with Article 22, Paragraph 3 of the Patent Law of the People's Republic of China
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Nanotechnology & Manufacturing

Nanotechnology is the aspiration for every hardware manufacturer, plus smart firmware integration into ASIC ICs. Integrating these technologies allows Hong Kong to implement versatile, state-of-the-art technology advancements.

Utilising manufacturing in the Greater Bay Area gives Hong Kong the best of both worlds: nanotechnology expertise in Hong Kong and mass production with global shipping knowledge in China.

AI, IoT, Bluetooth, NFC, E-INK display, Qi Wireless Power, FM RDS, and voice interaction — all technologies will eventually reside in an ISO-compliant sovereign AI companion card, ideal for:

- Licenses
- Passports
- Health certificates
- Transportation
 - ID
 - Banking
 - Cashcard
 - Tracking
- Protocol conversion
- AI Agent infrastructure

AI Cardz is also a smartphone adjunct (support) card solution.

Technology gets smaller and smarter over time. From computer mainframes to mobile phones — smarter, smaller, and cheaper in every generational advancement. AI Cardz believes the user card is the most understood, cost-effective, accepted, and versatile user device ever created.

The most significant technology product in the history of humankind:

1. **Cards:** More than 50 billion units in operation today — and still growing
2. **Cards:** The most abundant technology device in the history of humankind

What Exactly Is AI Cardz Technology, How Does It Work, Why Is It Unique?

Sony makes NFC chipset hardware with proprietary technology and encryption exclusively for Octopus Hong Kong. There are many brands of NFC, mostly produced in China.

AI Cardz uses Bluetooth that works with both Apple and Android 'Find My' technology, combining with all phones and devices sold globally to create a cohesive network with sovereign AI intelligence.

Qi Wireless Power recharges the card or provides power for battery-free operation. If the battery runs out, the Sony/Octopus NFC chipset remains working regardless, ensuring 24/7 operation in a sleek, waterproof enclosure.

AI Cardz patents describe the combination of battery and battery-free technologies with Qi Wireless Power, combining into a self-contained, fully sealed, and long-life multi-function operation — plus future expansion with:

- AI Agents
 - E-INK display
 - Multiple virtual applications
 - Crypto Tracker
 - Banking
 - Health monitoring
 - ID verification
 - Mobile phone companion
 - **Wall-mounted ambient hub** with speaker, microphone array, FM RDS, and BLE Mesh networking
-



What Is the AI Cardz Revolution in the Card Market Sector?

If you lose your cashcard or transit card, you have lost all the cash on that card. AI Cardz believes cashcards should be more secure and safe. The solution combines technologies with our sovereign AI companion platform, supported by Patents & IP, Bluetooth coexistence with NFC, plus Qi Wireless Power.

Now you can track your cashcard with either Apple or Android 'Find My' inbuilt apps and track your wallet, purse, hand carry, even your children, pets, the elderly, or wherever the card is located — everything tracked in real time. This is an amazing product for many applications and use-cases, and it is just the beginning.

AI Cardz has combined with Octopus cash transit cards, offering transport operation, retail spending, and simultaneously — tracking wherever your card is located. AI Cardz believes this combination of technologies, now operating in Hong Kong, is the future of card technology.

More features, more functions, more security, more personalisation options, and more technology innovation are coming soon — including AI Agents as the sovereign intelligence layer.

Our team recognised the problems with carrying multiple cards and the loss of cash if cashcards. We imagined a combination tracking card that also works as a cashcard — two cards in one (2-in-1). We achieved our dream.

Key Features

Feature	Benefit
Dual-purpose	Combines cashcard + global tracker + AI companion
Cross-platform	Works with Apple and Android devices
Durable design	Waterproof and Qi2 wireless charging
Secure	24/7 NFC-enabled, trackable
Versatile	Transit, ID, healthcare, personal data, payments, and AI Agents in one card
Sovereign	All data stays on the card — no cloud, no surveillance
Ambient Hub	Wall-mounted reader with Qi charging, NFC, speaker, microphone, FM RDS

AI — The Future

While Bluetooth isn't a prerequisite for all AI applications, it plays a crucial role in connecting devices, collecting data, and enabling AI-powered functionalities in various domains, particularly within the IoT ecosystem. AI can also enhance Bluetooth's performance and address its limitations.

AI Cardz delivers:

- **Sovereign AI Companions** — Expert Personas (Ressler, Buffett, Rogers), spiritual companions, health agents
 - **AI Agents** — Physical infrastructure for billions of intelligent digital entities
 - **Ambient Intelligence** — Wall-mounted hubs with voice, FM RDS, and BLE Mesh networking
- **Everyday oversight** — Payments, licenses, passports, health, digital currencies, travel, location, identification, parenting, and eldercare
- **Hyper-personalised experiences** — Retail, healthcare, smart homes, entertainment based on individual context and behaviour
 - **Fraud detection** — Real-time anomalies in card usage patterns
 - **Edge intelligence** — Phones pre-process data before cloud upload

AI Cardz will form and collaborate with engineering development teams in Hong Kong to elevate the technology with hardware upgrades (E-INK display, expanded memory, multi-application firmware, FM RDS, voice interaction) plus an AI Agent framework and sovereign intelligence layer.

Key Advantages

Advantage	Benefit
Global Scalability	BLE is ubiquitous (8+ billion smartphones)
Real-Time AI Integration	Personalized services, fraud detection, health monitoring
Seamless Authentication	Replace physical keys, tickets, payment cards
Edge Intelligence	Phones pre-process data before cloud upload
Sovereign Privacy	All data stays on the card — no cloud, no surveillance
Ecosystem Expansion	Cards + Ambient Hubs + BLE Mesh + FM RDS

"Merge physical and digital worlds at unprecedented scale — turning every wallet into a node in a planet-sized AI Agent network."

Summary

AI Cardz engineers have developed an entirely new product category for the **50+ billion NFC card market** — the **Sovereign AI Companion Platform**. We have combined technologies that are synergistic and embrace 2-in-1 efficiencies, plus improve security and privacy.

The card market is overdue for technological upgrade — it has been stagnant for decades and card skimming has reached unacceptable proportions. AI Cardz holds patents and IP that will transition the existing card market into a more secure, cohesive, and expandable ecosystem with AI Agents and sovereign intelligence oversight.

We are only at the very beginning of a significant global technological upgrade.

Card-To-Device-To-Cloud-To-Agent

1. **AI Cardz devices with AI** perform initial filtering, preprocessing, and even basic AI inference (e.g., anomaly detection, simple predictions) right where the data is generated.
2. **Cloud AI / Agent Orchestration:** Receives aggregated, pre-processed data for complex model training, deeper analysis, and long-term insights. This reduces latency, saves bandwidth, enhances privacy (less raw data transmitted), and enables real-time responses.

Connection Flow

Step	Action
Card → Device	Card advertises its UUID. Nearby phones/tablets/IoT devices detect it and auto-connect via BLE
Device → Cloud / Agent	Companion App/OS service forwards data to AI Agent orchestration layer via HTTPS/MQTT
AI Agent Processing	Processes data (authentication, analytics, personalisation) and pushes updates/commands back to the card and ambient hubs

Use Cases & Markets

#	Application
1	Digital Identity: Replace passports/driver's licenses with cloud-verified AI Cardz
2	Payments & Loyalty: Tap-to-pay + AI-driven offers
3	Health Monitoring: Medical ID cards transmit emergency data; health alerts to doctors
4	Access Control: Offices/hotels grant dynamic access via cloud-updated permissions
5	Smart Cities: Public transport cards sync with traffic AI to optimise routes
6	Smart Home: BLE sensors + AI learn patterns, optimise heating/cooling, send security alerts
7	Asset Tracking: Real-time location visibility, predicts maintenance needs
8	Retail: Tracks foot traffic, sends personalised offers, analyses shopping behaviour
9	Government/Licensing: Integrate with national ID, passport, DMV, and tax databases
10	Corporate: Expense systems, fleet telematics, building access, asset management
11	Infrastructure: SCADA systems, IoT sensors (BLE, LoRaWAN)
12	Fraud Detection: AI scans databases for duplicate IDs, forged documents, fraudulent patterns
13	Validity & Compliance: Automatically flags expired licenses, revoked passports
14	Efficiency Optimisation: Predicts application processing bottlenecks
15	Traffic/Pedestrian Flow: BLE beacons + AI analyse crowd density, adjust traffic lights
16	Public Facility Management: Track usage patterns, optimise cleaning, staffing, energy use
17	Lost & Found / Wayfinding: Track public assets, help users navigate complex spaces
18	Crowd Safety: BLE beacon networks monitor density, alert security to potential crushes
19	Event Management: Beacons trigger location-specific info/promotions
20	Indoor Asset Tracking: Centimetre-level accuracy for warehouse/port inventory

#	Application
21	Condition Monitoring: Track temp, humidity, shock during transit
22	Worker Safety: Monitor worker locations relative to hazardous zones
23	Tool & Equipment Tracking: Track usage, location, predict maintenance needs
24	Wildlife Tracking: Rugged BLE collars/tags analyse migration patterns, poaching risks
25	Air Quality/Noise Pollution: BLE sensors create real-time pollution heatmaps



AI Agents — The New Frontier

As NVIDIA CEO Jensen Huang has stated: **"The main AI opportunity will be billions of AI Agents."**

AI Cardz is uniquely positioned to provide the **physical infrastructure** for these agents:

AI Agent Application	AI Cardz Role
Personal AI Companions	Sovereign identity anchor and data store
Health Agents	Health monitoring, alerts, wellness coaching
Spiritual Agents	Faith-based Personas, daily verses, sermon Q&A
Security Agents	Access control, identity verification, emergency alerts
Financial Agents	Fraud detection, payment authentication, financial advice
Educational Agents	Personalised learning, lesson planning, student support
Investigative Agents	Credibility indicators, forensic analysis, case management
Ambient Agents	Room-scale intelligence via wall-mounted hubs

Why Will AI Cardz Dominate?

AI Cardz with Bluetooth is a game-changer that transforms the global cards market with some **50+ billion cards in operation** — and expands the sector into a cohesive, intelligent, sovereign network.

Why Hasn't the Card Market Changed Over Many Decades?

NFC is cheap, simple, versatile, easily manufactured, requires minimal power, has a reduced carbon footprint, convenient size, and is cost-effective. But NFC is a storage device — with no data processing.

AI Cardz changes this with sovereign AI and Bluetooth connectivity.

NFC vs Bluetooth

The major Bluetooth application today is 'Find My' tracking. Apple introduced their Find My app in 2019. Android began Find My Device network in 2024, upgrading to Find Hub in 2025 with increasing global expansion.

AI Cardz offers both options in a single card — plus sovereign AI intelligence.

Apple and Android allow third-party manufacturers to use their technology under license. This has created a plethora of manufacturers and quickly reduced the cost of Bluetooth-capable processors due to significant production volumes.

AI Cardz timing is perfect because the tracking market will double with Android users, and the cost will decrease significantly.

What Is AI Cardz Advantage?

Advantage	Benefit
Timing	Perfect — market is ready for sovereign AI
First Mover	No direct competition
Patented IP	7 patent families, HK granted, China allowed, PCT global
NFC Transition	2-in-1 (upgrade the NFC market with Bluetooth + AI)
Real Processing	Bluetooth enables AI, not just data storage
Connectivity	Escalates with wearables, IoT, phones, tablets, computers
Sovereign AI	AI Agents become a real point-of-difference
AI Defence	Counter complex AI attacks with sovereign intelligence
Dominant Protocol	Bluetooth is the global communications standard

What Is Delaying Bluetooth Cards Adoption?

The main drawback for Bluetooth cards is that they require more power than is available from NFC wireless readers.

AI Cardz has solved and patented the Bluetooth power issue.

AI Cardz patents include Qi Wireless Power technology, which offers **3,000% more energy than NFC** — an ideal solution for power-hungry Bluetooth cards and wearables.

Mobile phones supply Qi Wireless Power (available for wearables) in all latest handsets. This is extremely advantageous because AI Cardz can operate from the rear of phone handsets and harvest Qi energy. Bluetooth connectivity is simultaneously available. Importantly, in this scenario, **NO BATTERY IS REQUIRED**.

AI Cardz Ecosystem

AI Cardz operates in many different application scenarios:

Application	Description
2-in-1 Cards	Cashcard + tracker
Secure Off-Phone Storage	Encrypted identity and data
Protocol Conversion	Convert Bluetooth to IoT, RF, UHF, IR
E-INK Display	Secondary display, personalised by user
Wall-Mounted Ambient Hub	Qi charging, NFC, speaker, microphone array, FM RDS
BLE Mesh Network	Whole-ecosystem connectivity, no central server

AI Cardz 2-in-1 combines Bluetooth + NFC + location + sovereign AI, enabling unparalleled security and versatility — battery or battery-less.

The future is here.

The Bottom Line

AI Cardz is not just a product. It is a platform. It is infrastructure. It is the physical layer for the AI Agent economy.

-  **Sovereign** — Your data, your rules, no cloud
-  **Battery-free** — Qi charged, always ready
-  **Voice-first** — No screens, no apps, no learning curve
-  **Global** — Works anywhere, without internet
-  **Private** — No surveillance, no third-party access

-  **Intelligent** — Expert Personas, AI Agents, sovereign intelligence
-  **Scalable** — One platform, infinite applications, billions of users
 -  **Ambient** — Wall-mounted hubs for room-scale AI
-  **Connected** — BLE Mesh + FM RDS for resilient networks

To Explore the Future of Sovereign AI and the AI Agent Economy

Visit: www.ai-cardz.com

Chris Burke
CEO, AI Cardz Group
www.ai-cardz.com
Patent: HK30117667

Your AI. Your Rules. Offline. Everywhere.