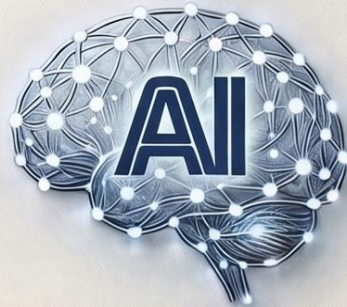
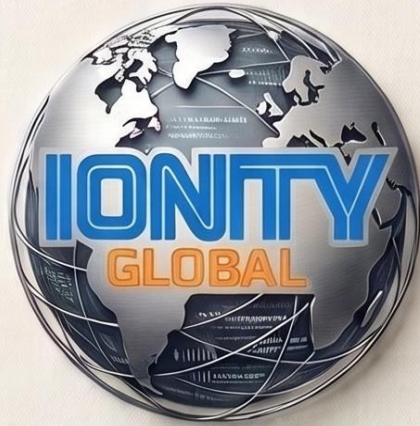


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Portfolio

About Ionity Global (Pty) Ltd

At Ionity Global, we do not simply build technology — **we engineer intelligence**. Every system we design is made to **connect, learn and evolve**, closing the distance between physical infrastructure and digital intelligence. In a world defined by data, automation and connectivity, Ionity Global stands at the intersection of **IoT, AI and cloud architecture** — turning complexity into clarity, and performance into *something you can measure*.

Our Hardware Runs on 5V and 12V Making use of Solar!

Our Mission

To deliver dependable, **Cloud & edge-first AI solutions** for industrial, agricultural and domestic environments — empowering businesses to reduce costs and make smarter decisions with technology priced to deliver **realistic return on investment**.

Our Vision

To become the leading provider of IoT and Edge AI **solutions across Southern Africa**, recognised for technological excellence, client-centricity, and measurable impact across every **industry we serve**.

Localized AI for Real-World Environments

Ionity Global builds localized AI systems that operate directly within your environment - on-premise, at the edge, or **inside your private cloud**. These models are trained on your data, your workflows, and your operational context, ensuring accuracy, privacy, and real-time responsiveness.

- On-device and edge-based AI inference
- Private, domain-specific language models
- AI copilots for industry-specific tasks
- Real-time anomaly detection and decision support
- AI that adapts to local rules, constraints and conditions

1
Smart task and workflow automation

2
AI-assisted reporting and analytics

3
Intelligent document processing

4
Real-time communication and alerting systems

5
Integrated dashboards for operations, compliance and performance



Seamless AI integration across your stack

Ionity Global specializes in integrating AI into existing systems — whether legacy, hybrid, or cloud-native. We ensure your infrastructure becomes AI-capable, AI-aware, and AI-enhanced without disrupting operations.

IONITY



Intelligent monitoring and alert systems



Predictive analytics for performance and risk



Automated decision-making in industrial environments



AI-native dashboards and control interfaces

EMBEDDED AI INTEGRATION

Embedding AI into ERP, CRM and operational systems

API ORCHESTRATION

API-based AI orchestration

DATA PIPELINE MODERNIZATION

Data pipeline modernization for AI readiness

REAL-TIME INFERENCE ENGINES

Real-time inference engines for decision automation

AI GOVERNANCE & LIFECYCLE

AI governance, monitoring and lifecycle management

www.ionity.co.za for more

Custom Software Engineering for Intelligent Systems

Ionity Global delivers **full-stack software development** tailored for high-performance, AI-enabled environments. We build applications that are scalable, secure, and deeply integrated with your operational ecosystem.


OUR DEVELOPMENT CAPABILITIES INCLUDE:

 Web, mobile and desktop application development

 Embedded and firmware engineering

 API and microservice architecture

 Cloud-native application design

 High-performance data and analytics platforms

Every solution is engineered with **precision, transparency** and **long-term scalability**.

IoT Systems Architecture

We design and deploy **Internet of Things (IoT)** networks that connect devices, sensors, and systems across industries. Our architecture ensures **long-range reliability, secure data transmission, and real-time analytics** — from industrial automation to smart infrastructure.

KEY CAPABILITIES:

LoRa, Wi-Fi and BLE network design



Edge-to-cloud data pipelines



Device provisioning and management



Predictive maintenance and telemetry dashboards



AI-Driven Automation

Artificial Intelligence is the backbone of modern efficiency. Ionity Global integrates AI models directly into operational workflows — enabling systems to adapt, predict, and optimize without human intervention. **NATIVE AI**

APPLICATIONS INCLUDE:





AEDi Automated Ecosystems Design Ionity

<p>1. </p> <p>Smart task and workflow automation</p>	<p>2. </p> <p>AI-assisted reporting and analytics</p>	<p>3. </p> <p>Intelligent document processing</p>
<p>4. </p> <p>Security and Compliance: Using verified known integrations and encryptions</p>	<p>5. </p> <p>Integrated dashboards for operations, compliance and performance</p>	<p>6. </p> <p>Offline and Online Edge or Cloud we build anywhere</p>

Cloud and Edge Integration

We **unify cloud & edge computing** and cloud orchestration to create scalable, secure, and high-performance environments. Our systems are designed





WHAT WE DELIVER:

<p></p> <p>Multi-cloud deployment strategies</p>	<p></p> <p>Secure API and data layer integration</p>	<p></p> <p>Real-time synchronization between edge nodes and cloud services</p>	<p></p> <p>Infrastructure-as-Code (IaC) automation</p>
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System Security and Reliability

Security isn't optional — it's engineered into every layer. Ionity Global implements zero-trust frameworks, encrypted communication, and redundant failover systems to protect mission-critical operations.





SECURITY HIGHLIGHTS:

-  End-to-end encryption
-  Secure device onboarding
-  Continuous uptime monitoring
-  SLA-based service credits for guaranteed performance

Custom Engineering and Integration

Every client's environment is unique. We specialize in custom system design, integrating hardware, software, and data into cohesive solutions tailored to your operational goals.

OUR ENGINEERING SCOPE INCLUDES:

-  Embedded systems and firmware development
-  Sensor fusion and data modeling
-  Industrial automation and control systems
-  Digital twin and simulation environments

Our Philosophy: Precision Meets Purpose

At Ionity Global, we believe technology must serve **truth and clarity**. Every system we design is *measurable, transparent and accountable* — built to perform under real-world conditions, not merely in theory. We do not chase trends; ***we build foundations that last.***

The Ionity Difference

-  Proprietary design software and IP
-  Digitization roadmaps for enterprise transformation
-  Engineering capability backed by operational uplift
-  Strategic brand and product development support
-  Risk absorption and partnerships

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Our Dream Team

Five specialists



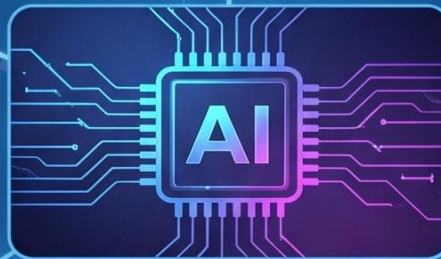
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What We Deliver, End to End

1 AI Integration & Localized Models

Private, domain-trained LLMs, AI copilots and on-premises inference -embedded into **ERP, CRM and** operational systems. **AGILE** Integrations.

2 Custom Software Engineering

Web, mobile and desktop applications, API and microservice architecture, and cloud-native platform development.

3 IoT & Edge Deployments

LoRa, Wi-Fi and BLE network design, device provisioning, telemetry dashboards and predictive maintenance.

4 Hardware & Firmware Design

Custom PCB design, ESP32-class edge modules, sensor fusion and embedded firmware engineered in-house.

5 Networks & Security

Zero-trust network architecture, encrypted communication, continuous monitoring and SLA-backed uptime.

6 Cloud & DevOps

Multi-cloud deployment strategies, Infrastructure-as-Code automation and CI/CD pipelines for reliable delivery.

Digital Audit & Forensics

Independent audits of your systems, networks, data and processes — covering **performance**, security posture, **cost efficiency** and **compliance**. Each audit is executed under a formal Letter of Engagement and returns a prioritised, evidence-based report with a clear remediation roadmap.

[Letter of Engagement](#) [24-hour turnaround](#) [Evidence-based reporting](#)



Ionity edge module — engineered in-house
- Cloud Integrated
-We Build Software and Hardware Across the board

Every service is available as a **standalone engagement** or as part of a managed, SLA-backed programme — with support and maintenance plans that keep systems performing long after handover.

*We do Provide **Training and Ai as a Service** / Digital Training and onsite as required. Software and Ai handovers and Implementation.*

www.ionity.co.za for more

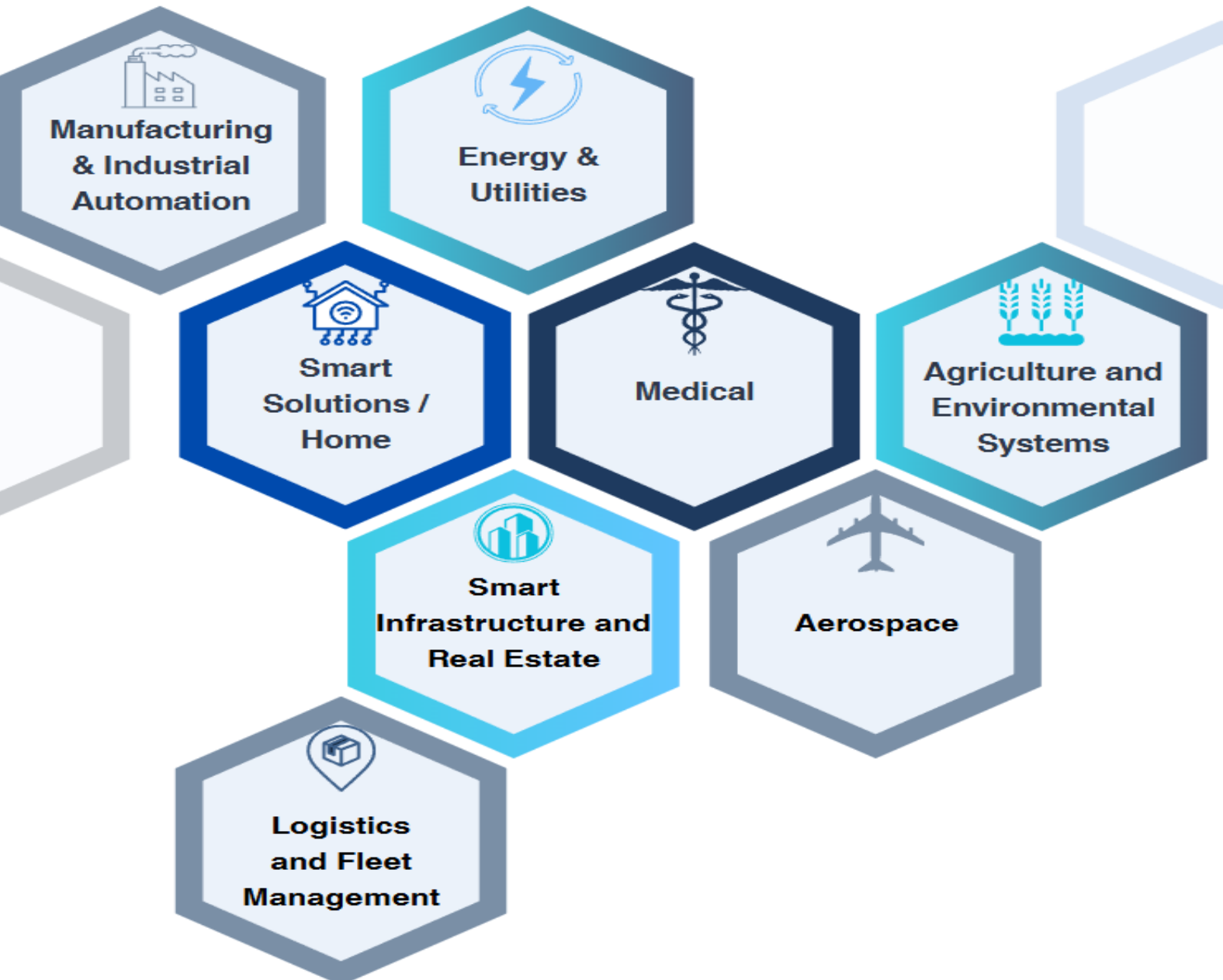
Our Services — At a Glance

 <p>ICT Services & Support Managed IT, infrastructure, networks and end-user support — with SLA-backed uptime.</p>	 <p>System Audits & Advisory Evidence-first audits of systems and sites — every finding ranked by Level of Effort vs. return.</p>	 <p>Digital Forensics Capture, preserve and interpret digital evidence — clear, decision-ready reporting.</p>
 <p>Floor & Fleet Management RTLS tracking, telemetry and control of assets, vehicles and device fleets — floor to field.</p>	 <p>Hardware Sales · Computers Workstations, servers, components and edge nodes — supplied, configured and supported.</p>	 <p>Software Sales · Cloud Licensing, SaaS subscriptions and managed cloud hosting with backups and monitoring.</p>
 <p>Custom Cloud Development Cloud-native platforms, pipelines and APIs engineered around your operation.</p>	 <p>Custom Hardware Integrations Sensors, PCBs and edge modules integrated into existing lines — legacy SCADA bridged, not replaced.</p>	 <p>Firmware Engineering Embedded firmware for ESP32-class and industrial controllers — with secure OTA updates.</p>
 <p>Software Development Full-stack engineering: APIs, microservices, databases and high-performance platforms.</p>	 <p>Application Development AI-ready mobile, desktop and workplace applications with modular AI endpoints.</p>	 <p>Web Development & Hosting From fast marketing sites to complex portals — designed, built and maintained.</p>
 <p>Native-AI, Agents & Custom MCP Custom MCP servers, AI agents, copilots and RAG — wired straight into your stack.</p>	 <p>AIoT & Edge Systems Sensing, inference and control at the edge — Wi-Fi sensing, device fleets, telemetry.</p>	 <p>Cloud & Digital Twins Live digital twins, data pipelines and observability that mirror your operation.</p>
 <p>Networks & Zero-Trust Security Zero-trust architecture, encryption and VPN tunnels — POPIA / GDPR compliant by design.</p>	 <p>Data Services & Storage Time-series ingestion, data lakes, BI dashboards, backup and disaster recovery.</p>	 <p>AI Training & Skills Labs Onsite and online training, applied AI upskilling and hands-on skills labs.</p>

Every engagement is scoped under a formal Letter of Engagement — transparent pricing, measurable deliverables, provable return.

Industries We Serve

From factory floors to smart homes, Ionty Global deploys the same engineering discipline across every sector we serve — localized AI, resilient IoT networks and measurable outcomes.



Let's engineer intelligence together

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