



**UMD is Australia's leading IoT and RFID engineering company, delivering end-to-end solutions across the Automatic Identification and Data Capture (AIDC) industry, providing operational visibility of assets and inventory.**

Since 1983, Unique Micro Design (UMD) has been "passionate about enhancing customer experience to form long term partnerships using emerging technologies".

We do this by solving customers' needs for productivity improvement by adding real time visibility and control to software and Physical-AI, using Edgware, IoT and our engineering IoT solutions skills; which reflects our "Unique" ability to integrate:

- Data capture products
- RFID/IoT and sensors
- UMD Value added Engineering (systems, software & design)

In summary, UMD provides a "full-stack" data capture solution by adding "eyes and ears" to software.

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We help organisations add eyes and ears to their software — giving enterprise systems real-world awareness through automated data capture, intelligent devices, and edge-to-cloud integration. This enables companies to:

- Improve productivity through automated data capture
- Access specialised custom and standard electronic products
- Adopt Physical AI and Industry 4.0 / 5.0 practices

Physical AI and Industry 4.0 / 5.0 are about connecting edge technologies — RFID, IoT, sensors, machine vision, and terminals — to enterprise software, allowing AI and autonomous agents to deliver insights, automate workflows, and strengthen operational resilience.

**For industry partners**, we provide:

- A single source of products, systems, and solutions for most of your AIDC needs
- The capability to engineer custom hardware and software that uniquely matches your requirements
- Managed edge solutions that free you to focus on your core competencies

**For customers** seeking solutions, we offer:

- An extensive network of partners — our UMD Collaboration Solutions Partners — enabling complete, end-to-end delivery
- Cost-effective solutions tailored to your goals

With over 40 years of engineering experience, we design and deliver interconnected solutions built on deep expertise across three core technology domains and six lines of business (LoB).

# Our Three Core Technology Domains

UMD engineers interconnected edge solutions that integrate vertically and horizontally to meet customer-specific needs — spanning the devices people use, the devices that sense and act on their own, and the software and services that tie everything together.

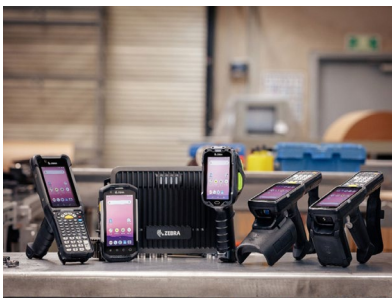
## 01 Data Capture Equipment (Human Interface Devices HID)



The devices people interact with directly:

- Mobile and computer terminals
- Barcoding
- Point of service, kiosk and vending
- Wireless and networking

This spans mobility terminals, tablets, PDAs, wearables and vehicle-mounted computers; touchscreen POS terminals with cash drawers and peripherals; handheld and wearable barcode and RFID scanners; and industrial, desktop and portable printers — all backed by procurement, device pre-configuration, mobile device management, deployment and after-sales support.



MOBILE TERMINALS



CUSTOM DEVICES



POINT OF SERVICE

## 02 RFID, IoT and Sensors (Autonomous Interface Devices -AID)



The devices that sense and act on their own:

- IOT / RFID
- Fixed barcode scanners
- Machine vision
- Embedded systems and interfaces
- Sensors

This includes fixed, handheld and OEM RFID readers, portals, antennae and tags; IoT gateways, devices and sensors across BLE, cellular, LoRa, Wi-Fi and wired networks; OEM scanner and embedded modules; and the integration of intelligent sensor networks that capture data from edgware devices in real time.



RFID PORTALS



FIXED READERS



IOT & SENSORS

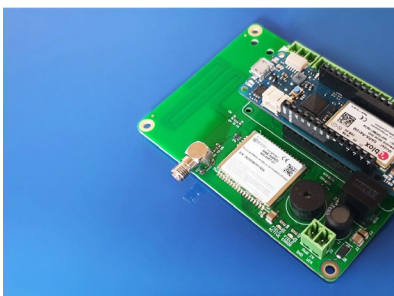
### 03 UMD Value Add — Software & Services



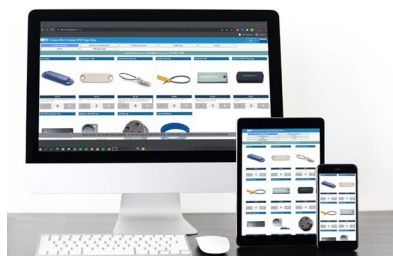
The expertise that ties everything together:

- Systems
  - systems architecture & integration
  - wireless infrastructure & networking
  - hosting services - secure, high reliability
  - deployment
  - after sales support
    - systems Support
    - mobile device management (MDM)
    - repairs and spare parts
    - vendor contracts
- Software
  - embedded, mobile & applications
  - middleware & cloud
  - payment service provider - credit card payment gateway
- Engineering
  - electronic products design - controllers and interfaces
  - manufacturing and assembly
  - research and development

Our in-house engineering is complemented by managed cloud platforms — CardGate (a PCI-DSS payment gateway), UMD BOS (e/commerce platform), CHARIOT (IoT broker & applications), RACE-WARE (retail / RFID), and VAST-BE (access control & vouchers)



ELECTRONIC DESIGN

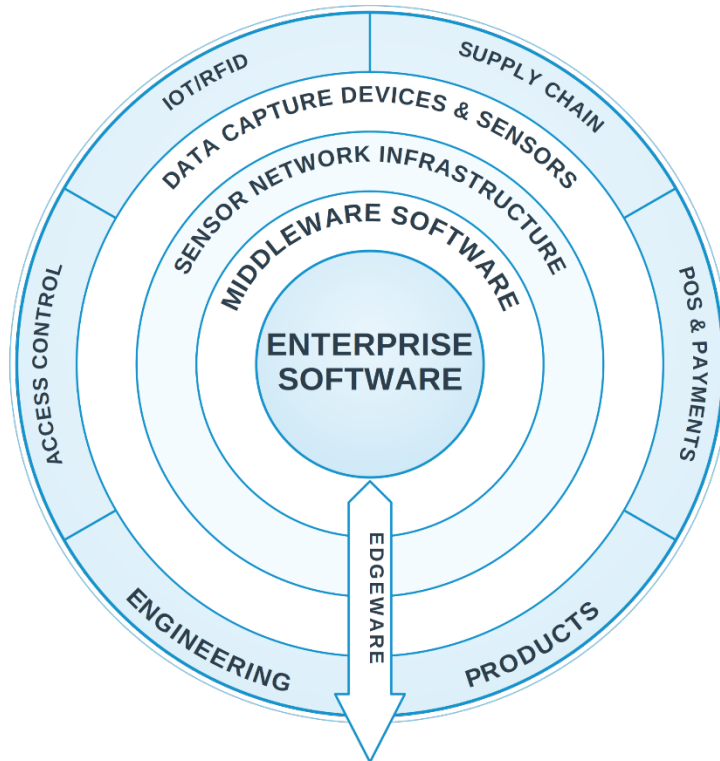


CLOUD PLATFORMS



PAYMENT GATEWAY

## 01 Our Lines of Business (LoB)



- **Supply Chain and Mobility**

- Warehousing systems and solutions
- Supply Chain
- Mobility systems



- **RFI/IoT**

- Cloud Broker edgware middleware (UMD CharIoT)
- IoT sensor network
- Machine vision
- Managed Edgware platform



- **Patron Access**

- Cloud Patron Access and Ticketing platform
- Physical access control (turnstiles, mobile, controllers)



- **Retail and Payment Technologies**

- RFID and Cloud middleware
- Cloud based Payment Gateway (Cardgate.net)
- POS / Kiosk



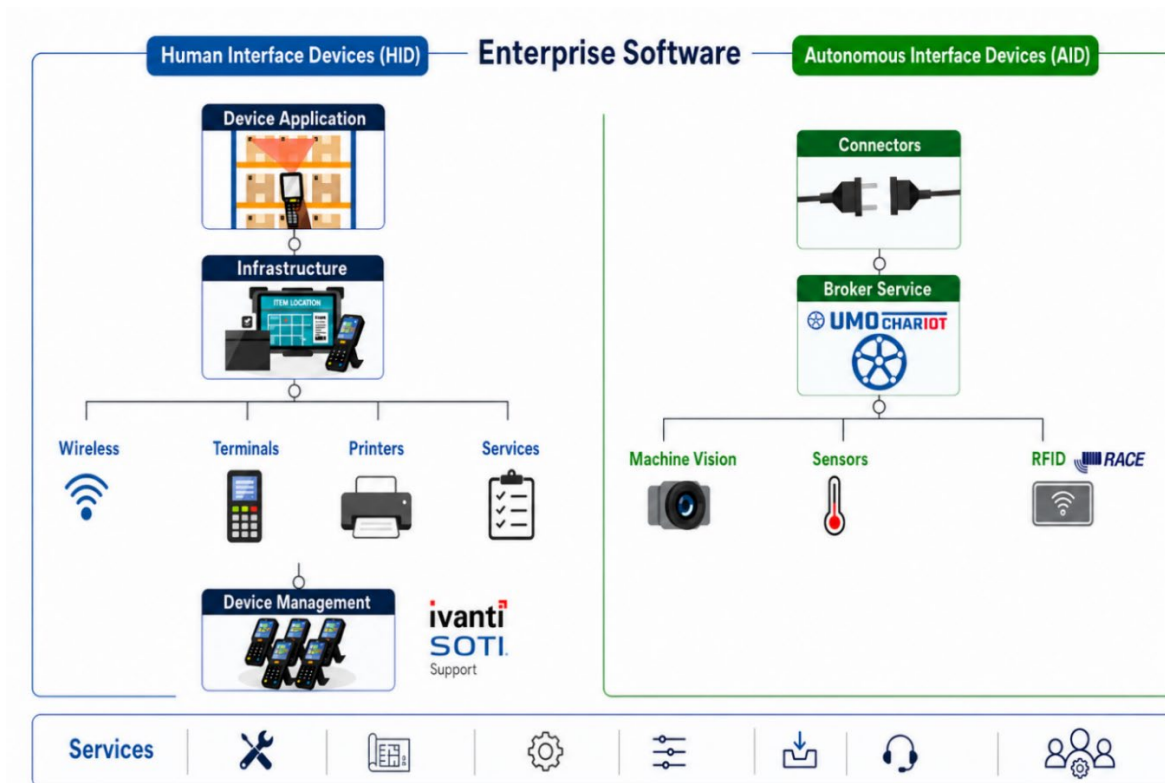
- **Engineering Services**
  - Systems
  - Software
  - Design
  - Manufacturing & Assembly
- **Products and Wholesale**
  - Product distribution
  - Industry support (Wholesale)

## 02 Our Markets



*Note – data capture is used by all industries*

## 03 Putting it all Together



*UMD can provide any segment: products, systems, solutions or managed edge platform*

## 03 Our Core Values

*“Unique Micro Design (UMD) has been more than just a supplier of hardware, software and services to Customers, we solve their problems.*

*And in many cases, solving very tough and challenging problems via our dedicated and diverse team of skilled professionals who have a “can do attitude”.*

*We are passionate about creating innovative solutions using our expertise in engineering IoT solutions.*

*Our solutions are for Customers that are looking for a point of difference, and understanding technology innovation will help them succeed.*

*Once we have a customer, we like to envelop them and become part of their team and continue to help drive their success.”*

**1983**  
Founded

**40+ yrs**  
Engineering

**Clayton**  
VIC, Australia

**3**  
Core Domains



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