

ELECTRONICS DISTRIBUTION / ENTERPRISE ECOMMERCE

Complex catalogs. Clear buying journeys.

iConnexion Enterprise eCommerce Platform

Tech Monkeys modernized iConnexion's digital storefront, combining technical product discovery, catalog automation, and eCommerce capabilities for an extensive electronics inventory.

CLIENT

iConnexion

SECTOR

Electronics distribution

LOCATION

Singapore

THE BUSINESS CHALLENGE

An electronics catalog needs more than a product grid. Buyers must navigate manufacturer part numbers (MPNs), compare technical attributes, and access supporting documents. Staff also need a practical way to maintain product, inventory, and pricing data.

CATALOG SCOPE

200,000+ product lines in the documented project scope*Featured Manufacturers*

We collaborate with industry-leading manufacturers specializing in passive and electromechanical electronic components. Our extensive range of products includes resistors, capacitors, connectors, and more, sourced from trusted brands known for their reliability and innovation.

**Product Categories**

Battery Products

Cable Assemblies

Cables, Wires - Management

Connectors, Interconnects

Hardware, Fasteners, Accessories

Inductors, Coils, Chokes

RF and Wireless

View all categories

Project screenshot: manufacturer discovery and product category navigation.

01 / TECHNICAL PRODUCT DISCOVERY

Find the right component.

Search and filtering were designed around the detailed specifications that drive electronics purchasing decisions.

01 Custom product indexing

Elasticsearch supports product search with custom indexing, including tag-based matching against hidden search fields and associated manufacturer part numbers.

02 Specification-based filtering

Filter by manufacturer, product family, range, pitch, orientation, connection type, and other category-specific attributes. Dynamic filters disable invalid combinations.

03 Structured comparison tables

Present technical attributes alongside manufacturer part numbers, stock, pricing, packaging, and datasheet links, with sortable product tables for comparison.

Home - Products - Headers, Receptacles, Female Sockets

Headers, Receptacles, Female Sockets

Q Search

Manufacturer	Product Family	Range	Pitch	Gender	Orientation	Connection Type	Number of Pins
☐ Harwin (1162)	☐ HRI (689)	☐ Datamate (502)	☐ 2.00mm (0.079") (532)	☐ Female (1157)	☐ Vertical (1049)	☐ PC Tail / Throughboard (707)	☐
☐ Harwin Asia (9)	☐ BBI (473)	☐ INDESS (252)	☐ 1.27mm (0.05") (172)	☐ Male (7)	☐ Horizontal (105)	☐ Surface Mount (SMT) (428)	☐
	☐ Harwin Solution (9)	☐ ARCHER (178)	☐ 2.54mm (0.1") (172)		☐ Angled (7)	☐ Press-Fit PC Tail / Throughboard (5)	☐
		☐ Gecko (160)	☐ 1.25mm (0.049") (160)		☐ Straight (6)	☐ Surface Mount (SMT) & PC Tail / Throughboard (1)	☐
		☐ KONTROL (43)	☐ 1.27 x 2.54mm (0.05" x 0.1") (49)		☐ Right Angle (2)		
		☐ Kona (21)	☐ 2.00mm/4.00mm (0.079"/0.157") (42)		☐ N/A (1)		
		☐ SignalCore-IDC (9)	☐ 1.27mm (0.05") (172)				

Apply All

Clear All

Live product view: category-specific specification filters. Captured 1 October 2026.

02 / PRODUCT EVALUATION + COMMERCE

Give buyers the detail to move forward.

The redesigned product experience connects component specifications with documentation, related parts, and commerce workflows.

01 Rich manufacturer part pages

Show structured attributes, product images, packaging, quantity pricing, and lead-time information. Provide datasheet downloads and sample request access.

02 Support component selection

Surface mating products, primary alternatives, and related products. Link component specifications, training material, datasheets, and manufacturer resources.

03 A managed eCommerce layer

WordPress and WooCommerce support content, product, cart, and order management. PayPal integration is documented as delivered in the project source.

M55-6101242R



HARWIN

KONTROL

Kontrol (1.27mm pitch) DIL Horizontal Socket SMT high performance connector, in Tape and Reel - 12 contacts (6+6)

 [Download Datasheet](#)

[Request Sample](#)

Live product view: part identity, datasheet download, and sample request access.

03 / ENGINEERING + OPERATIONAL VALUE

Maintain the catalog. Build on a modular foundation.

Bulk catalog workflows and a hybrid application stack support the continuing work of electronics distribution.

DOCUMENTED TECHNOLOGY FOUNDATION

Web application	Laravel + Blade
Backend services	Laravel + Node.js
Content + commerce	WordPress + WooCommerce
Product search	Elasticsearch with custom indexing
Deployment	Docker containers

DELIVERED BUSINESS VALUE

A catalog staff can maintain. Excel/API bulk uploads cover products, categories, subcategories, and MPN details, with automated daily inventory, pricing, and availability synchronization.

A more informed buying journey. Category navigation, specification filters, and supporting documents bring the information buyers need into the storefront.

A foundation for continued development. Separate application, search, commerce, and deployment components support future enhancements to the platform.

Need an eCommerce platform for a complex catalog?

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