

Product catalog management and e-Commerce for semiconductor distributors

Industry: Semiconductors, Supply Chain

Business Objective: Create a one-stop-shop portal of semiconductor distributors. Enable engineers to purchase semiconductor samples from multiple distributors in one shopping cart.

Background: Most off the shelf e-commerce platforms did not offer the functionality and customization needed to sell industrial products like semiconductors. Even standard solutions available from the large ERP solution providers were not able to easily scale to handle the 100s of thousands of sku's that needed to be managed. Design engineers from all leading electronics manufacturers desperately needed a one-stop shop to order all the samples they need for their designs.

Solution overview: We acquired the industry knowledge and e-commerce behavior emerging in the industry from our client. We designed the database solutions using open source technologies so that the solution could be architected to meet the high scale requirements needed for this situation. We integrated the system with payment gateways to enable credit card transactions with MasterCard, Visa, Discover and American Express. We also developed unique content relevant to the products being sold and made it available so it was optimized for search engines to easily locate and the content to rank high in search results.

Services rendered:

- Business Consulting & solution design
- Customized and highly scalable e-commerce architecture design and development
- Integration with payment gateways
- Ongoing maintenance & user support
- Search Engine Optimization

Screenshots:

Ability to search for industrial products based on manufacturer, specifications, keywords or part numbers.

Email Address: Password: [Forgot Password](#) [New User Register](#) Remember Me

Buy Electronic Components Online

▶ **Search Parts:** Please enter the key or Part Number(s)

Part Number/Keyword:

RoHS Compliant In Stock

Select suppliers:
Amphenol -Tuchel
Amphenol RF/Microwave Products
Capax Technologies Inc.
Hirose Electric, USA, Inc.

All Suppliers

Delivery Country: -- Choose One --

Uniquely designed interface to display search results based on client requirements

Email Address: Password: [Forgot Password](#) [New User Register](#) Remember Me

Search:
 Part Number/Keyword:

 RoHS Compliant In Stock
 Restrict Suppliers:
 3M United States
 API Delevan
 Adam Tech
 Amphenol-Tuchel
 Amphenol RF/Microwave Produ
 All Suppliers
 Delivery Country:
 -- Choose One --

Buy Electronic Components Online
 Search Results: Results 1 to 10 of 463

RoHS Compliant

Source	Disti Part Number	Pkg Type Pkg Qty	Max Free Qty	Lead Time	In Stock	Quantity	Qty: Price (USD)	Quantity
044 100 1414P 100 101 (Amphenol-Tuchel):								
<input type="checkbox"/> Powell Electronics (Hots)	044 100 1414P 100 101	N/A N/A	0		2		1: 83.64	<input type="text" value="0"/>
044-100-1414P-100-101 (Amphenol-Tuchel):								
<input type="checkbox"/> Powell Electronics (Hots)	044-100-1414P-100-101	N/A N/A	0		34		1: 83.66	<input type="text" value="0"/>
44-100-1414P-100(101) (Amphenol-Tuchel):								
<input type="checkbox"/> Powell Electronics (Hots)	44-100-1414P-100(101)	N/A N/A	0		24		1: 28.27	<input type="text" value="0"/>
C016-20C003-100-12 (Amphenol-Tuchel):								
<input type="checkbox"/> Powell Electronics (Hots)	C016-20C003-100-12	N/A N/A	0		14		1: 6.01	<input type="text" value="0"/>
C016-20C005-100-2 (Amphenol-Tuchel):								
<input type="checkbox"/> Powell Electronics (Hots)	C016-20C005-100-2	N/A N/A	0		80		1: 19.26	<input type="text" value="0"/>

Shopping cart with customized shipping costs and tax calculator and related business process

Order Wizard Order Entry | Checkout | Verify | Summary

Order Samples

▶ **Cart Details:** You have following items in your cart. Select the item(s) to remove.

Items in cart : 1

<input type="checkbox"/>	Part Number	Manufacturer	Description	Pricing(\$)	Stock	Quantity	Amount (USD)	
<input type="checkbox"/>	044 100 1414P 100 101	Amphenol-Tuchel		1: 83.64	2	<input type="text" value="1"/>	83.64	
Remove								
Shipping Method: <input type="text" value="-- Select --"/>							Sub Total:	83.64
Order Notes: <input type="text"/>							About Shipping Costs	
* All order notes will be reviewed and may delay the processing of your order.								
<ul style="list-style-type: none"> There are some Parts/Series having minimum quantity tag for purchase. Total Order Cost includes Shipping/Handling charges and is available only once the order is approved by Powell Electronics. 								
<input type="checkbox"/> I have read terms & conditions from distributor(s)/supplier(s).							Grand Total :	83.64

Back end account management capability was provided for each distributor

Back end administrative capability was provided to the portal administrator to process all orders as needed.