

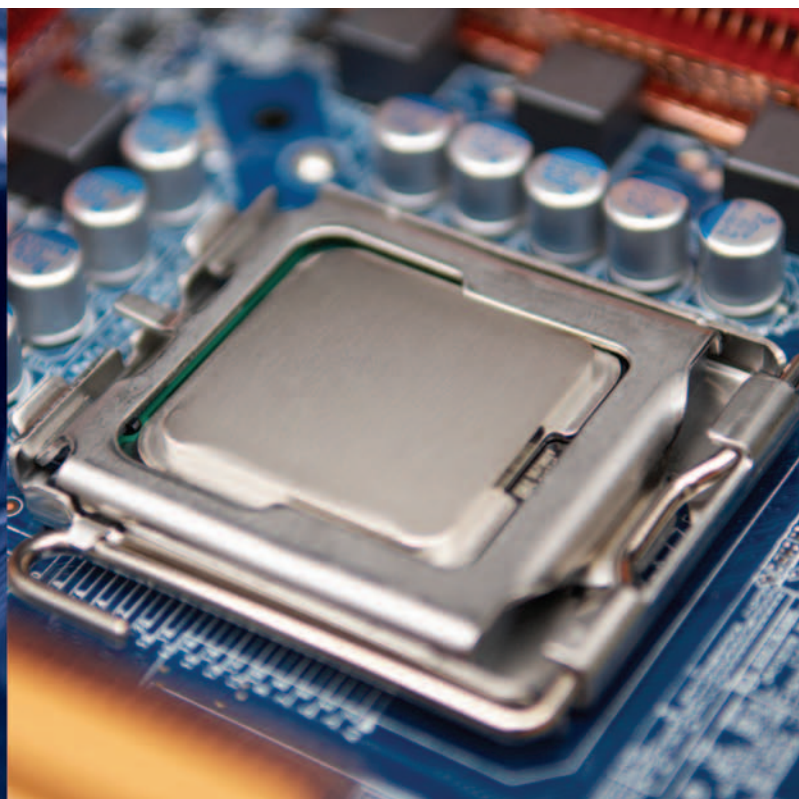
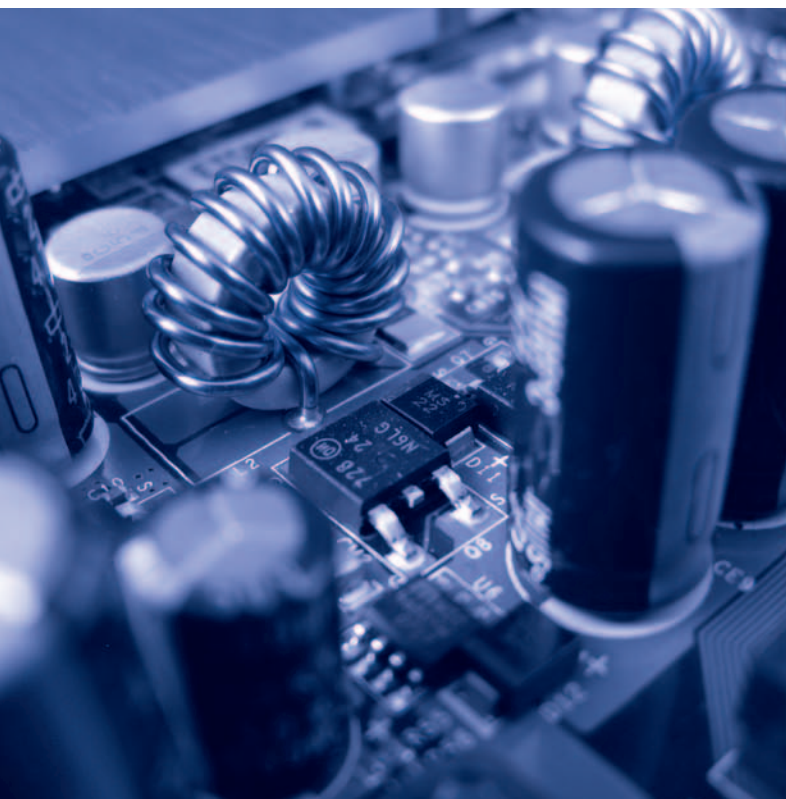
IHS 4DOnline Solutions

Optimize electronic component research,
selection, sourcing, and obsolescence and
environmental compliance management



The Source

for Critical Information and Insight™



The IHS 4DOnline family of information resources and component management tools allows you and your company to improve design, sourcing, manufacturing, production, and sustainment processes.

Manufacturers today are challenged with ever-increasing pressures such as:

- Accelerated product launches
- Market demand for green products
- Environmental regulations
- Extended life cycles
- Extended supply chains
- Quality and reliability
- Diminishing Manufacturing Sources and Material Shortages (DMSMS)
- Export controls

IHS 4DOnline Solutions

The IHS 4DOnline family of electronic component information resources and services helps companies meet these challenges as it:

- Makes the right information and tools available at each decision point
- Enables everyone in your company to make informed design and sourcing decisions faster
- Allows you to accelerate time-to-value by significantly improving component research, selection and management processes.

Create Value with Current, Accurate Information

- Speed time-to-market with designs optimized for engineering and sourcing
- Proactively manage component obsolescence to minimize impacts over product life cycles
- Ensure product compliance with world-wide environmental regulations
- Increase productivity with consistent technical and sourcing information for engineering, procurement, manufacturing, and support groups
- Combine the leading electronic component database with advanced obsolescence and compliance management tools and custom data integration services
- Provide a strategic approach to product life cycle and obsolescence management.

Single-Point Access to Critical Information

IHS 4DOnline Solutions provide multiple searching options in a powerful, intuitive user interface. Engineers and buyers throughout your company have single-point

access to the information they require to quickly select the right component, including:

- Comprehensive parametric and performance data
- Manufacturers' documentation including datasheets, timing diagrams and application notes
- Product Change Notices (PCNs) and End of Life (EOL) notices, last time buy and delivery dates
- Part status and end-of-life projections
- Form, fit and function replacements
- Lead-free and environmental regulations compliant alternates.

IHS 4DOnline Solutions Deliver a Complete Set of Component Information, BOM Management Tools and Data Collection Services Tailored to Your Product Lifecycle Information Requirements

Find, Compare, Source, and Manage Components

IHS 4DOnline solutions allow you to find, compare, source, and manage components. Effectively identifying and sourcing components requires solutions that:

- Save time - identify and research components in minutes, not hours
- Reduce costs - compare alternate parts from multiple sources
- Ensure compliance with environmental regulations - find a lead-free part from the same or alternate source
- Minimize obsolescence risk - design for component and product life expectancy
- Improve procurement - identify opportunities to consolidate component purchases across product lines
- Respond to new opportunities - quickly develop new designs or analyze the manufacturability of a current product for a new market.

Technical Information for Millions of Components From More Than 500 Manufacturers

The IHS Electronics Database is recognized as a leading source of professionally managed, standardized electronic component information. It is developed and maintained by experienced component engineers using ISO 9001 certified processes, and continuously updated.

IHS Electronics Database includes data on millions of components from over 500 manufacturers. The data is organized into more than 350 categories including:

Capacitor	Sensor
Discrete Semiconductor	Passive Filter
Fiber Optic Device	Transformer
Frequency Control Device	Interconnect Device
Inductor	Relay
Integrated Circuit	Switch
Optoelectronic Device	Terminals and Blocks
RF/Microwave	Semiconductors
Component/Module	Passives
Resistor/Capacitor	Commercial and military
Network	connectors

Reliable Information for Every Decision Maker

Everyone in your company, regardless of what they do or where they are, can access technical and availability information from a single, professionally maintained database. By having reliable information (data that is consistent, accurate, and current) in one central source:

- Design engineers can use technical criteria to identify specific parts and search for alternates
- Component engineers can check designs for component availability or obsolescence
- Purchasing agents can compare technical attributes and availability of replacements from alternate manufacturers

The consistent component data provided by IHS 4DOnline Solutions:

- Reduces search time
- Avoids costly re-designs
- Automates program inventory analysis to optimize the supply chain

IHS 4DOnline Solutions have multiple access and delivery options and are easily integrated with your existing applications and processes.

Improve Supply Chain Processes

IHS 4DOnline Solutions enable you to improve your supply chain processes. Select parts and manufacturers from a validated source, increase awareness of sourcing issues to avoid costly design, production and sustainability impacts, and effectively resolve potential impacts.

Ensure Compliance with Environmental Regulations

IHS 4DOnline Solutions help you manage environmental compliance by combining technical and performance parameters with environmental attributes such as:

- Environmental regulations compliance status
- Lead-free alternates
- Regulated substances
- Compliance documentation.

Quickly identify compliant parts from the same or alternate manufacturers and produce validation documents and traceable processes.

Design your Product Lifecycle Management Solution with 4DOnline

Parts Universe

4DOnline Parts Universe provides single-point access to component data from more than 500 leading global component manufacturers. Users can search by:

- Part number
- Attribute
- Category browsing
- Industry keywords, or
- Manufacturer name

and quickly access technical specifications and datasheets. Results are displayed in a consistent format, regardless of the manufacturer, to allow side-by-side comparison for fast, reliable decision making.

AVLAlert

AVLAlert offers the most complete collection of component manufacturer's EOL and PCN notices summarized for your AVL parts and delivered daily via email. AVLAlert monitors component manufacturer's updates and matches the subscriber's AVL and BOM parts to create a tailored summary report that lists affected parts for quick review of potential impacts and a link to the document for further analysis. The tailored notifications page provides the history of all notices received by the user under the subscription. Users can view, retrieve, sort, and filter the list by any column to focus on alert types, manufacturers, or action dates to organize and prioritize their workflows.

Comet™

Comet introduces a strategic obsolescence management approach to product lifecycle information management to assure awareness of obsolescence events as they occur.

- Provides the latest obsolescence identification and impact analysis
- Uses state-of-the-art matching algorithms for fast, accurate BOM cleansing and seamless aggregation of part parametric attributes to identify form-fit-function alternates
- Automatically delivers manufacturers' notices for changes in availability and lifecycle forecasting.

BOM Manager

BOM Manager automates obsolescence management for complex product structures and analyzes the impact at the component, assembly, product line and platform levels in a single secure environment.

- Cleans part numbers and manufacturer names

Parts Universe	AVLAlert	Comet	BOM Manager	Web Services	Custom Data Services
<ul style="list-style-type: none"> • Single part search, side-by-side comparison of parts from over 500 manufacturers • Environmental compliance, lifecycle forecasts, and technical documents 	<ul style="list-style-type: none"> • Daily updates of Manufacturer's PCNs, EOL Notices and alerts • Searchable summary reports to manage products and suppliers 	<ul style="list-style-type: none"> • Actively monitor component status, compliance, and life cycle forecasts, last time buy and delivery dates • Cleanse part number and manufacturer names • Summarize impacts and exceptions 	<ul style="list-style-type: none"> • Manage components, assemblies, products and lines with indentured BOM structures • Manage approved manufacturer lists (AVLS) with multiple manufacturer parts with preferred part/manufacturer designation 	<ul style="list-style-type: none"> • Integrate IHS Electronic Database parametric attribute data with in-house PLM, ECAD, EDA, and ERP systems 	<ul style="list-style-type: none"> • Data collecting and organizing services for REACH and RoHS compliance, ITAR and EAR export control analysis and reporting, and advanced product lifecycle information management
Electronic Component & Document Database					
<ul style="list-style-type: none"> • Single-point access to components from over 500 manufacturers • 350 component categories with searchable attributes • Datasheets, application notes and diagrams • Status, Life Cycle and End of Life forecasts • PCN, PDN and EOL Notices from over 880 manufacturers 			<ul style="list-style-type: none"> • EU RoHS and China RoHS compliance attributes • Certificates of Compliance • Lead-free alternates • Direct, upgrade and downgrade replacements • Form-fit-function alternates 		

Accelerate time-to-value with the right information and tools available at each decision point.

- Builds a knowledge database of reconciled parts and manufacturers
- Manages AVLs with multiple manufacturer parts and preferred manufacturers
- Actively monitors:
 - Product Change Notices (PCNs)
 - End of Life (EOL) notices
 - Government-Industry Data Exchange Program (GIDEP) alerts.

Web Services

Web Services integrate IHS Electronic Database component attribute, lifecycle, and compliance data with internal Product Line Management (PLM) and Enterprise Resource Planning (ERP) applications. Using XML communication, parametric attributes and documents are delivered on demand for access in the context of your current decision support systems.

Custom Data Services

If your company is challenged by out of date, inaccurate or incomplete parts data, IHS Custom Data Services provide the resources to clean and organize your existing data libraries and develop and integrate new information resources. IHS possesses the domain expertise and ISO certified processes to audit data risks, cleanse, standardize, and enrich data for compliance and supply chain optimization initiatives.



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