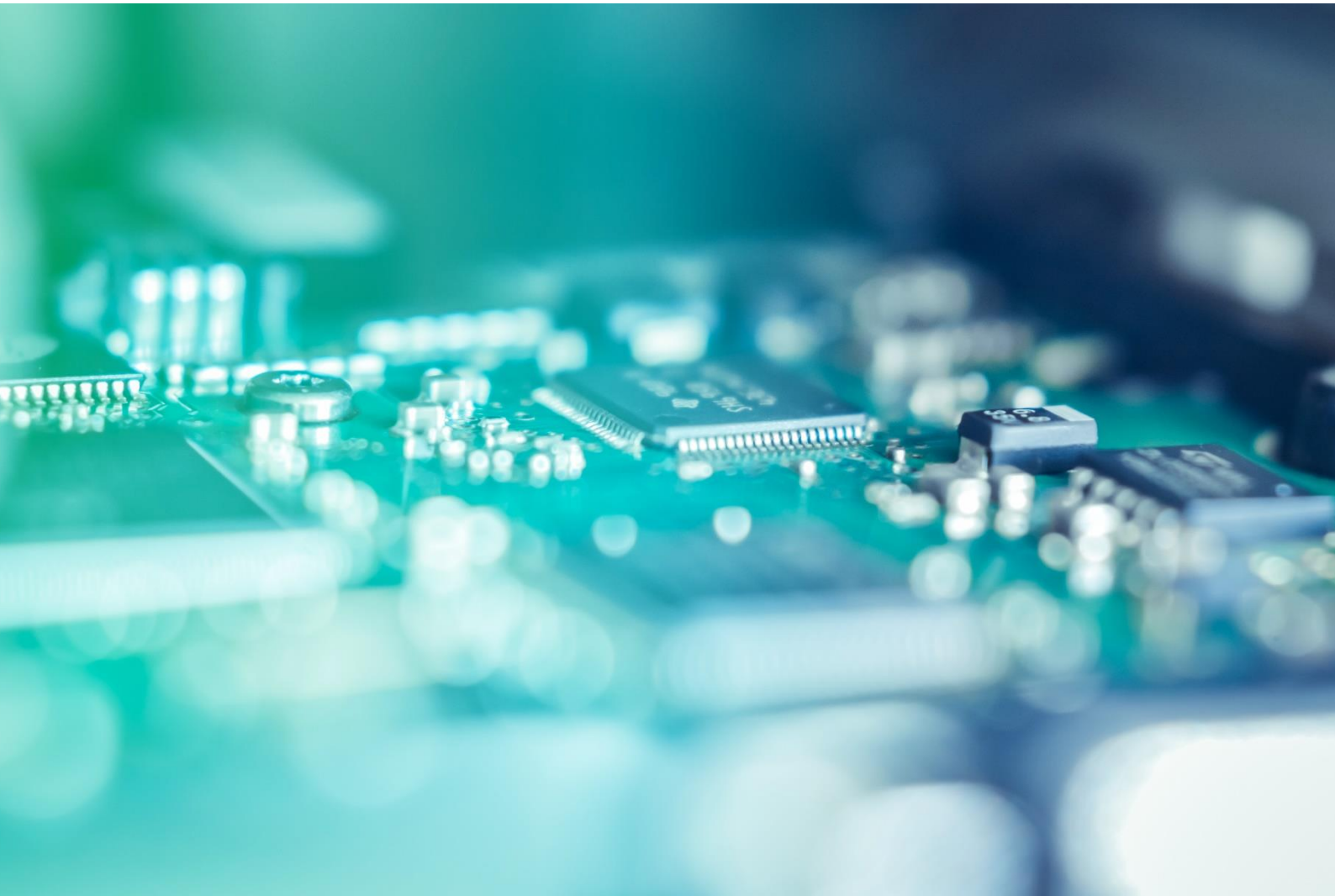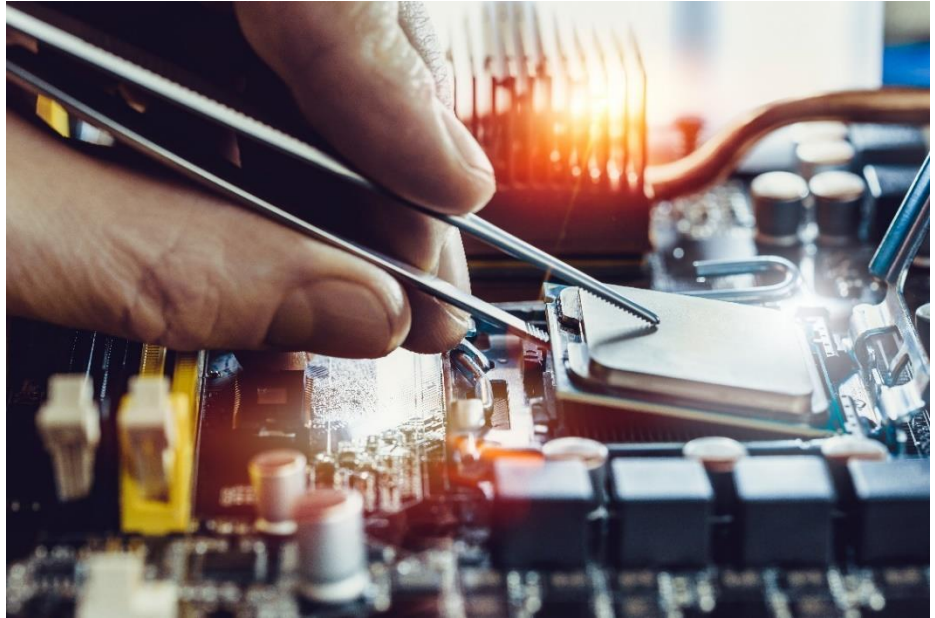# IHS Markit™

Parts Intelligence

Improve part selection and sourcing decisions with comprehensive electronic component and supplier data.

Comprehensive, current electronic component and supplier data to improve part selection and sourcing decisions

Developing products that meet time-to-market, manufacturability, reliability, profitability and sustainment goals is more challenging than ever. Today, continuously changing technology, global supply chain and economic uncertainties, concern for the environment and extended life cycles are causing unprecedented component selection challenges. Identifying the right components and supply chain partners, while avoiding obsolescence, compliance and counterfeit risks can make the difference between success and failure.

IHS Parts Intelligence enables engineering and sourcing professionals to identify the best components for their products, with access to over half a billion electronic, electro-mechanical and fastener parts across multiple categories, from leading manufacturers worldwide. From detailed technical attributes and documentation to lead-free alternates, lifecycle forecasts, and current availability and pricing data, Parts Intelligence provides enterprise-wide access to a continually updated information resource that manufacturers can rely on to improve decisions.

Manage Components and Suppliers to Build a Competitive Advantage

Finding the right parts and suppliers is critical to product development, manufacturing and sustainment. Making the best decision at every step requires current, accurate information from the latest technical and pricing data to obsolescence and compliance risks that may affect the availability of critical parts over a product's service life. Parts Intelligence provides enterprise-wide access to detailed component and supplier information in a searchable, consistent format that enables users to:

- Search and compare manufacturer's parts side-by-side
- Download datasheets, product change and end-of-life notices (PCN and EOL) and environmental compliance documents
- Identify lead-free replacements from the original or alternate manufacturers
- Find replacements based on lifecycle and years to end of life forecasts
- Access high-risk and suspected counterfeit part alerts
- View current pricing and availability data from authorized distributors along with industry average pricing
- Identify aftermarket suppliers for discontinued parts

View Search Criteria

Semiconductors > Memory ICs > DRAMs

(1) China RoHS Compliant
YES
(2) EU RoHS Compliance
YES
(3) Memory Density (bits)
38654705664
(4) Operating Temperature-Max (Cel)
95
(5) Number of Terminals
240
(6) Temperature Grade
Other: +0C to +95C
(7) Part Status
Active-Unconfirmed
(8) Access Time-Max (ns)
0.45

Search by part number, keyword or category, and parametric attributes and filter the results to find the right part in less time.

Life Cycle

Attribute	Value
Life Cycle Stage	Mature
Availability(YTEOL)	> 8
Alert/Prediction Date	26-Feb-2018
Life Cycle Information Source	IHS/Manufacturer
Life Cycle Code	3.5
Estimated YTEOL	8.5
Date of Intro	06-Nov-1976

View technical attributes and manufacturing data, datasheets, lifecycle forecasts, change notices, hazardous material content and compliance documents without searching multiple databases.

Continue your search with direct access to the leading electronics distributors for the latest pricing and availability information.

Expand Your Part Search into the Inventory of Major Distributors

After identifying the right part, you can look at status and availability information from the top electronic component distributors.

- Quantity in stock
- Minimum and maximum order quantities
- Lead time
- Price
- Packaging
- Source region
- Link to the distributor's site to research pricing and submit quote requests

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Access to the Information You Need to Design, Source and Sustain Your Products

Daily updates to Parts Intelligence provide current, comprehensive, consistent and accurate information, including

- Hundreds of millions of board-level components from over 4800 worldwide manufacturers with the top 530 complete, regularly updated and current
- 400+ Categories:
    - Integrated circuits
    - Discrete Semiconductor devices
    - Frequency control devices
    - Optoelectronics
    - RF / Microwave
    - Fiber optic devices
    - Inductors
    - Resistors
    - Capacitors
    - Electromechanical devices
    - Connectors
    - Fasteners and hardware

- Normalized attributes and units for powerful parametric searching and cross-referencing across manufacturers
- Commercial, military and automotive-qualified parts
- Historical coverage of legacy parts
- Documentation
    - Datasheets (current and historical)
    - Application notes and timing diagrams
    - Product Change Notices
    - End of Life Notices
    - Full Material Disclosure data sheets

Manage Obsolescence Risks

Identify at-risk components with the supplier's part status, end of life and change notices and IHS Markit proprietary life cycle stage and years to end of life forecasts. Parts Intelligence includes the information you need to avoid shortages or quickly find alternates for at-risk parts and suppliers.

- Obsolescence and Component Life Cycle data
    - Part Status
    - Current Life Cycle Stage
    - Years to End of Life Forecast
    - Last Time Buy date

- Cross-References
    - Form-Fit-Function drop-in replacements
    - Functional equivalents
    - Equivalent, Upgrade and Downgrade alternates
    - Aftermarket manufacturer replacements

Proactively Manage Environmental Compliance

Evolving regulations and a growing list of restricted substances make it more important than ever to manage the components in your products. With Parts Intelligence, you can find compliance and hazardous material data and documents alongside the technical and sourcing information in a consistent, searchable format. Environmental / Material Data and Documentation includes:

- EU and China RoHS compliance status & exemptions
- REACH SVHC and PDSL presence
- CAS accounted for weight
- Hazardous substance concentration and weight
- Environment Friendly Use Period
- Compliance Number and Identifier
- Manufacturing parameters
- Certificates of Compliance
- Full Material Disclosure documents
- Material declaration data sheets
- IPC-1752-2 Material Declarations and IPC XML download
- Terminal finish and JESD-609 code

RoHS and REACH data and documents to identify environmental regulation compliance risks.

Export Compliance Data

Export restrictions affect not only defense-related products, but can apply to dual-use items - electronics and computer technology that have civilian and military application. Parts Intelligence includes four (4) attributes to help you track controlled items through the supply chain, ensure proper classification of your products and maintain compliance with export regulations:

- Export Control Classification Number (ECCN)
- ECCN Governance (ITAR or EAR)
- Harmonized Tariff Schedule (HTS) Code
- Schedule B Classification Code

Cross-references and alternates to easily compare parts side-by-side with highlighted differences between the original and alternate parts.

Advancing Decisions

With Parts Intelligence, you can take a strategic, proactive approach to identifying and sourcing components, managing content over the product's life cycle and optimizing supply chains.

- Quickly find the right components for new product designs
- Eliminate redundant parts and suppliers and negotiate favorable terms with preferred suppliers
- Find parts without hazardous materials to comply with environmental regulations
- Stay ahead of quality risks to accelerate product development, reduce costs, and assure sustainment
- Actively manage obsolescence risks for new designs or long-term product support

Suspected Counterfeit and High-Risk Part Alerts.

Discover Why the Leading Manufacturers Around the World Rely on IHS Markit

Parts Intelligence is just one of a full range of IHS Markit solutions that manufacturers worldwide rely on to advance decisions across the organization.

IHS Markit also offers a range of software tools and information resources - from market and technology forecasts to industry standards, environmental regulations and analysis tools - to improve product performance, profitability, compliance and sustainment.

- BOM Intelligence — Advanced bill of materials (BOM) analysis solution
- PCNalert — Component obsolescence management and alerting
- Haystack Gold — Government and military logistics parts & suppliers' databases
- IHS Standards Expert/Engineering Workbench — Governmental and industry standards and management tools

IHS Markit (Nasdaq: INFO) is a world leader in critical information, analytics and solutions for the major industries and markets that drive economiesworldwide. The company delivers next-generation information, analytics and solutions to customers in business, finance and government, improving their operational efficiency and providing deep insights that lead to well-informed, confident decisions. IHS Markit has more than 50,000 key business and government customers, including 85 percent of the Fortune Global 500 and the world's leading financial institutions. Headquartered in London, IHS Markit is committed to sustainable, profitable growth.

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