

Obsolete IC Parts

Honeywell



**Obsolete Semiconductor Part
Replacement Solution for Military
and Aerospace Systems**

Obsolete IC Parts

A Complex Problem, A Complete Solution

Military and aerospace systems built over the past 50 years face the increasingly frustrating challenge of maintaining original equipment systems rapidly approaching obsolescence. Many rely on semiconductor products that are no longer manufactured by mainline sources, while the search for difficult-to-find parts and services are generating downtime expenses.

Honeywell can provide the most timely and cost-effective solution to resolve your obsolescent parts challenge and extend the life of the entire legacy system.

Our specialization in quality designing, packaging and manufacturing, coupled with a technology history that dates back decades, enables us to provide a wide variety of approaches to meet your performance and dimensional specifications, pin for pin.

Diminishing manufacturing sources is a serious issue for the military, airline community, and many commercial industries. Honeywell has stepped in as a long-term source provider for legacy systems to satisfy the demands of technology obsolescence by leveraging a variety of approaches:

To find our more:

Visit www.myspaceparts.com

Aerospace Electronic Systems

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Replacement Options To Meet Your Needs

Honeywell has your time, cost and risk considerations in mind to find the most efficient, reliable solution possible. To many aerospace suppliers, Honeywell has been a primary source of electronics for over 25 years, and will continue to leverage our technology for a wide variety of aerospace, military and commercial applications.

Form, Fit and Function Replacement

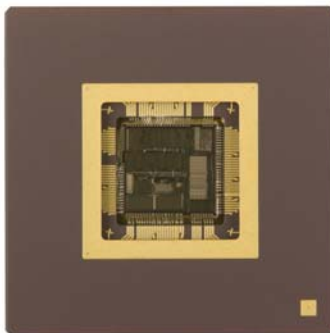
You need the product that worked for many years and does not require advancing generations of technologies.

Honeywell's designed solution will have true form, fit and functionality that precisely matches your obsolete component. Our complete, advanced, modern manufacturing methodologies eliminate costs to redesign systems and time to requalify a new system.

You provide us the specifications, and we will provide pin-for-pin replacement part.

Design Conversion Services

To provide long-term viable solution, Honeywell can retarget your original netlist to a Honeywell-based design. We manage any size project and modify



designs for processors, application specific integrated circuits, memories or field programmable gate arrays (FPGAs) to your specifications.

Using industry-leading tools, our conversion services include:

- **Convert Legacy Designs to Honeywell Technologies:** Honeywell offers the ability to convert many obsolete legacy devices into long-term viable solutions. We offer a cost effective means to translate a foreign netlist into a high reliability replacement device. This provides with flexibility and avoids costly redesigns.
- **Convert Existing Designs to Silicon On Insulator:** Honeywell is currently translating several former Allied Signal/MTC designs into fit/form/function replacements using mature Silicon On Insulator (SOI) technologies. Honeywell owns many of the key designs, saving you significant time and expense.
- **FPGA-to-ASIC Conversion:** A form, fit and function replacement of Field Programmable Gate Array using Space Qualified Rad Hard ASIC Technology to ensure mission success. Honeywell enables a seamless path to convert FPGAs to Honeywell's silicon on insulator (SOI)-based ASICs. Conversion of multimillion gate FPGA devices can be readily implemented in 0.8 μ m, 0.7 μ m and 0.35 μ m space-qualified technologies with an option for 0.25 μ m as required. Several FPGAs can be converted to a single ASIC to significantly reduce cost and improve technical parameters.

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