

# **Chips for space solar power generation**



## Overview

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The enormous energy demands required by artificial intelligence data centers has prompted Google to seek otherworldly alternatives - in space. The tech giant announced an initiative, dubbed Project Suncatcher, on Tuesday in a research paper. Google's strategy involves launching its AI chips, called. Long Beach, Calif. - February 26, 2026 - Rocket Lab Corporation (Nasdaq: RCLB) ("Rocket Lab" or "the Company"), a global leader in launch services and space systems, today announced the introduction of advanced silicon solar arrays designed to power gigawatt-scale space-based data centers spanning. The overall technical goal is to significantly enhance the power efficiency and output power at the customized monolithic microwave integrated circuits (MMICs) level with advanced fabrication processes, enabling next-generation future solid-state transmitters for space applications. The specific. New microcontrollers expand Vorago's proven deep-space heritage into growing Earth orbit markets with extreme resilience, greater sustainability, and up to 75% lower cost AUSTIN, TX - Nov. In April 2025, Chinese manufacturer LONGi achieved a world record efficiency of 34. This system, composed of a power station of large, close-flying modules residing in geostationary orbit, can form dynamically programmable focal points on Earth to provide dispatchable power on demand.

## Chips for space solar power generation

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### [Space solar power generation: A viable system proposal and](#)

We propose a scalable and economically efficient system for SSP enabled by high-efficiency, radiation-hard solar cells; high-efficiency integrated circuits; flexible phased arrays; and

### **HP Inc. (Oregon) , NIST**

The CHIPS for America award will provide HP up to \$53 million in total direct funding under the CHIPS and Science Act to support the expansion and modernization of HP's existing facility in Corvallis,



### [Rocket Lab Introduces Advanced Silicon Solar Arrays To Power](#)

Adding a space-qualified silicon solution to the Rocket Lab portfolio reduces reliance on critical mineral supply chains, mitigates potential vulnerabilities, and enables the ambitious and

### **CHIPS Incentives Funding Opportunities , NIST**

The CHIPS Act provided \$52.7 billion to revitalize the domestic semiconductor industry. Of that sum, the CHIPS Program Office within the U.S. Department of Commerce is responsible for



### [The "Soft Side" of Chips: NIST Advances](#)



### **SK hynix (Indiana) , NIST**

The CHIPS for America investment in SK Hynix of up to \$458 million in direct funding under the CHIPS and Science Act to establish a high-bandwidth memory (HBM) advanced packaging fabrication and

### [Polymer Science for](#)

A new perspective article from NIST and collaborators\* highlights this critical but often underrated piece of the semiconductor revolution: the polymer-based "soft" materials that hold



### **Amkor Technology, Inc. (Arizona) , NIST**

The CHIPS for America award will provide Amkor Technology Peoria, Arizona up to \$900 million in total direct funding under the CHIPS and Science Act to support the construction of a new advanced

### [The CHIPS Program Office Vision for Success: Two Years Later](#)

The CHIPS Program Office Vision for Success: Two Years Later More than two years ago, the Biden-Harris Administration and a bipartisan coalition in Congress passed the CHIPS and Science Act



### **GlobalFoundries (Vermont) , NIST**

The CHIPS for America award will provide GlobalFoundries up to \$125 million in total direct funding under the CHIPS and Science Act to support the revitalization of an existing

fabrication facility that is

### [The Department of Commerce's CHIPS Program Announces a Letter](#)

The Department of Commerce's CHIPS Program Office announced the signing of a non-binding letter of intent to provide up to \$277 million in direct funding and up to \$1.3 billion in a senior



### **TSMC Arizona , NIST**

The CHIPS for America award will provide the company with up to \$6.6 billion in total direct funding under the CHIPS and Science Act to support the company's planned investment of more than \$65

### [Google to launch AI chips in space on solar-powered satellites](#)

Google's strategy involves launching its AI chips, called Tensor Processing Units, aboard solar-powered satellites that would circle the Earth in uninterrupted sunlight.



### **Intel Corporation (Arizona) , NIST**

The CHIPS for America award will provide Intel Arizona up to \$3.94 billion in total direct funding under the CHIPS and Science Act to support the construction of two new leading-edge logic fabs and

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