



Tianhe Solar Panel

What is core module Tianhe?

Core Module Tianhe is the first module of China's space station launched into orbit. It is mainly used for the integrated control and management of the whole space station.

What does Tianhe mean for China's Space Station?

Tianhe, a much larger upgrade on China's smaller, 8-ton Tiangong testbed space labs, is equipped with a multi-docking hub to facilitate construction of the space station and allow crew to embark on extravehicular activities.

What is Tianhe based on?

However, Tianhe is based heavily on the Functional Cargo Block (FCB) elements of the Russian space program -- which formed the core of Mir and which serves as the grounding design of the Zvezda service module of the International Space Station. The Tianhe module in preparation for launch. (Credit: CMS)

What is Tianhe & how does it work?

Tianhe is the hub for China's grand plans in low Earth orbit. When you purchase through links on our site, we may earn an affiliate commission. Here's how it works. China's Tiangong space station in orbit. Tiangong's core module, called Tianhe, has been in space for more than 1,000 days. (Image credit: CCTV)

What does Tianhe stand for?

Tianhe (Chinese : 天和; pinyin : Tiān Hé; lit. 'Harmony of the Heavens'), [8] [9] officially the Tianhe core module (Chinese : 天和核心舱), is the first module to launch of the Tiangong space station.

How big is China's Space Station Tianhe?

The 16.6-meter-long, 4.2-meter-diameter Tianhe will provide regenerative life support and the main living quarters for astronauts as well as propulsion to maintain orbital altitude. The construction phase of China's space station begins nearly 30 years after the project was first approved, back in 1992.

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China launched the 54-foot-long (16.6 meters) module -- named Tianhe, or "Harmony of the Heavens" -- on a Long March 5B rocket on April 29, 2021, marking the start of construction of the three ...

Tianhe will be just one-fifth the size of the International Space Station, and will host up to three crew members at a time. ... An hour and 13 minutes after launch, its solar ...

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