

Asia Pacific Satellite Optical Ground Station Market Forecast to 2028 - Regional Analysis - by Operation (Laser Satcom and Optical Operations), Equipment (Consumer Equipment and Network Equipment), Application (Laser Operations, Debris Identification, Earth Observation, and Space Situational Awareness), and End User (Government and Military and Commercial Enterprises)

<https://marketpublishers.com/r/A87D71749FBBEN.html>

Date: September 2023

Pages: 133

Price: US\$ 3,000.00 (Single User License)

ID: A87D71749FBBEN

Abstracts

The Asia Pacific satellite optical ground station market is expected to grow from US\$ 15,918.59 million in 2023 to US\$ 29,571.07 million by 2028. It is estimated to grow at a CAGR of 13.2% from 2023 to 2028.

Rising Demand for Laser-Based Satellite Communications Fuels Asia Pacific Satellite Optical Ground Station Market

In laser-based satellite communication, lasers can be used to send information to and from Earth. These invisible beams can traverse the skies, sending terabytes of data, pictures, and videos to expand the knowledge regarding the universe. Also, laser transmissions are hard to intercept and jam; hence, they play a very important role in military communication networks. For instance, they can help send and receive more information in a single transmission than traditional radio waves.

As laser-based satellite communication helps transfer data at a fast speed, governments of various countries are adopting the technology. In addition, the contract will support the development of GEO-to-LEO optical uplinks and downlinks, positioning

and timing accuracy over optical communication links, space-to-ground links, and interoperability with multiple optical communications standards. Furthermore, various companies are using laser technology to develop advanced optical communication solutions for their customers. Thus, the rising demand for laser-based satellite communication to transfer data faster will propel the growth of the satellite optical ground station market during the forecast period.

Asia Pacific Satellite Optical Ground Station Market Overview

The expanding space development initiatives in Asia Pacific are creating a profound shift in the understanding of the cosmos, boosting national security, and offering vital information, goods, and services that further support innovation. The growing space development activities by the collaborative efforts of different countries, such as China, India, Japan, and South Korea are catalyzing the demand for space situational awareness, which is subsequently propelling the market growth in the region. One of the world's largest space projects is run by China. It either conducts the most or the second most orbital launches each year.

Several Asian nations, including Japan, South Korea, and Taiwan, are enhancing their capacities to lessen their reliance on the US. Japan, in close cooperation with NASA and ESA, is working on space exploration. Japan Aerospace Exploration Agency (JAXA), which is an integral part of the International Space Station, is closely working on the Artemis moon program. The country has also found its own niche in the cutting-edge missions to asteroids. Similarly, South Korea is working on enhancing its space sector. In June 2022, South Korea announced its first successful satellite launch using its domestically developed rocket. Through this, the county will be able to grow its aerospace ambitions and demonstrate the critical technologies needed to build larger missiles and launch spy satellites. In addition, huge sums of investments are being made in the space sector by several Asian countries. For instance, Taiwan announced its ambition to invest US\$ 900 million to develop its space sector. This includes the launch of ~10 domestically made satellites by 2028 and also the development of a launch site. Such developments across the space sector of APAC region are catalyzing the adoption of satellite ground station market across the region.

Asia Pacific Satellite Optical Ground Station Market Revenue and Forecast to 2028
(US\$ Million)

Asia Pacific Satellite Optical Ground Station Market Segmentation

The Asia Pacific sodium bicarbonate market is segmented into operations, application, end user, equipment, and country.

Based on operation, the Asia Pacific satellite optical ground station market is segmented into laser satcom and optical operations. The optical operations segment held a larger market share in 2023. The laser satcom segment is sub-segmented into OISL, direct-to-earth, and feeder links.

Based on application, the Asia Pacific satellite optical ground station market is segmented into laser operation, debris identification, earth observation, and space situational awareness. The earth observation segment registered the largest market share in 2023. The laser operation segment is further sub-segmented into ranging and communication.

Based on end user, Asia Pacific satellite optical ground station market is segmented into government & military and commercial enterprises. The government & military segment held a larger market share in 2023.

Based on equipment, the Asia Pacific satellite optical ground station market is segmented into consumer equipment and network equipment. The network equipment segment held a larger market share in 2023.

Based on country, the Asia Pacific satellite optical ground station market has been categorized into China, India, Japan, and the Rest of Asia Pacific. China dominated the Asia Pacific satellite optical ground station market share in 2023.

AAC Clyde Space AB; Ball Corp; Comtech Telecomm Corp; Hensoldt AG; ODYSSEUS SPACE SA; and Thales SA are some of the leading companies operating in the Asia Pacific satellite optical ground station market in the region.

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