

Delivery time for anti-tracking optical modulators



AI Overview

Anti-tracking optical modulators can be available off-the-shelf with immediate shipping from certain suppliers, while custom or high-spec devices may require longer lead times. Off-the-Shelf Availability Suppliers like Exail offer a range of intensity and phase modulators that are ready to ship, covering frequencies up to 40 GHz and wavelengths from 800 nm to 2000 nm. These devices are typically available for immediate delivery once an order is confirmed, making them suitable for projects requiring fast deployment. Custom or Specialized Modulators For modulators with specific anti-tracking features, high-power handling, or unique wavelength requirements, lead times may be longer. Companies such as Thorlabs provide acousto-optic modulators (AOMs) and Q-switches with advanced coatings and cooling options. While standard models may ship quickly, custom configurations often require additional manufacturing and testing, which can extend delivery times from several weeks to a few months depending on complexity.

Factors Affecting Delivery

- Type of modulator:** Acousto-optic, electro-optic, or plasmonic modulators have different production times.
- Wavelength and frequency specifications:** High-frequency or non-standard wavelength devices may require custom fabrication.
- Cooling and housing requirements:** Devices with water cooling or specialized thermal management may add to lead time.
- Supplier stock and location:** Immediate shipping is possible if the device is in stock; otherwise, production schedules apply.

Recommendations

- Check supplier stock:** For immediate needs, focus on suppliers advertising "in-stock" or "ready to ship" modulators.
- Request lead time confirmation:** Contact the supplier directly to confirm delivery estimates for custom anti-tracking features.
- Plan for testing and integration:** Even with fast shipping, integ...

Article Content

Electro-optic Modulators – Buyer's Guide & Suppliers

This buyer's guide for electro-optic modulators provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

Application Note Evaluating Optical Modulators

As a result, evaluation of optical modulators no longer requires an external amplifier and power supply, because direct driving is supported and evaluation can be performed without calibration using an

Acousto-optic Modulators – AOM, Bragg cells,

Acousto-optic modulators use the acousto-optic effect to modulate laser beam intensity, or possibly other beam properties.

MOTT modular optical tool tracking framework enabling efficient ...

This paper presents the Modular Optical Tool Tracking (MOTT) framework, a unified platform for implementing, integrating, and benchmarking optical tracking solutions.

Optical Modulators: A Comprehensive Guide

Optical modulators are also used in other applications such as material processing, biomedical optics, and optical coherence tomography. For example, in laser material processing,

Optical Factor Tracking

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Technologies for Modulation of Visible Light and their Applications

High-speed optical modulators such as acousto-optic and electro-optic modulators are used for resonant control of the atoms. Combinations of such modulation mechanisms also play an

Optical modulator

An optical modulator is a device which is used to modulate a beam of light. The beam may be carried over free space, or propagated through an optical waveguide (optical fibre).

Pulse-width modulation

Pulse-width modulation (PWM), also known as pulse-duration modulation (PDM) or pulse-length modulation (PLM), is any method of representing a signal as a rectangular wave with a varying

Hollow-core anti-resonant optical fibers for chemical and biomedical ...

Hollow-core optical fibers hold good potential to create an ideal transmission environment akin to free space, characterized by low dispersion, low nonlinearity, low time delay, and low loss,

Optical Modulators – acousto-optic, electro-optic

Acousto-optic modulators are based on the acousto-optic effect. They are used for switching or continuously adjusting the amplitude of a laser beam, for shifting its

Optical wireless integration based on phase modulator down

Abstract We demonstrate one optical wireless integration system for 44 Gb/s polarization division multiplexing quadrature phase shift keying (PDM-QPSK) signal down-conversion based on

Exploiting Phase Light Modulators for Low-SWaP Real-time Wavefront ...

Wavefront correction and beam tracking are critical in applications such as long-range imaging through turbulence and free-space optical communication. For instance, adaptive optics

Global Optical Modulator Materials Market Size to Grow by ...

Rise time and fall time determine the modulator's speed, essential for applications like optical switching and optical microscopy. Quality control measures ensure consistent manufacturing and reliable

Optical time-division multiplexing signal processing using electro ...

Abstract We present some optical signal processing methods for optical time-division multiplexing, based on electro-optic modulators. Dual-parallel Mach-Zehnder modulator and time

Optical trapping of mesoscale particles and atoms in hollow-core ...

Since the first demonstration of optical trapping in HCF, hollow-core-fiber-based optical trap (HCF-OT) has become an essential branch of optical tweezer that draws intense research

G& H Products | Acousto-Optic Modulators AOMs

In order to identify the best acousto-optic modulator and RF driver solution, the key trade-off parameters to consider are the rise time, modulation rate, beam diameter, and optical power handling. The most

A comprehensive survey on optical modulation techniques for

It provides a detailed assessment of each technique's working principles, advantages and limitations, and potential applications in cutting-edge photonics. Additionally, it covers relevant topics

Integrated-optical modulators

Time in which the optical signal of an amplitude modulator rises or falls between the 10 % and 90 % values of maximal transmission if an exact electrical step-function is applied to switch the modulator

Optical Modulators - Electro-Optic and Acousto-Optic

Utilizing electro-optic, acousto-optic crystal, and piezoelectric actuation technologies, our modulators are built on over 25 years of proprietary innovations. Agiltron's solutions deliver unmatched, application

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A comprehensive survey on optical modulation techniques for

Among the diverse classifications of optical modulators, electro-optic modulators (EOM) occupy a place of paramount importance. EOM leverage external electric fields to alter the refractive

Optical Modulation

Elevate your optical modulation capabilities with Exail's cutting-edge RF modulator drivers. Designed for precision in amplifying electrical signals, our drivers are crafted with GaAs technology and a

Lithium Niobate Electro-Optic Modulators

These modulators, based on lithium niobate, offer a unique combination of performance, robustness, and reliability, even under extreme conditions, making them prime candidates to meet rigorous

Fiber-Coupled Integrated Electro-Optical Modulators | Jenoptik

With fiber-coupled integrated optical light modulators you can influence the amplitude or phase of laser light quickly and with high dynamics.

Vacancies

A postdoctoral researcher on optimizing synchromodal transport networks for construction logistics
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Field of expertise: Postdoctorate
Organisation: Department of Industrial

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