

Ac1200 coherent optical module



Overview

Acacia Communications (NASDAQ: ACIA) says it plans to begin sampling a 1.2-Tbps coherent optical module during the first half of next year. The AC1200 Coherent will leverage the company's Pico coherent DSP to transmit a pair of 600-Gbps wavelengths. More than 100 network operators including 3 of the 4 largest hyperscalers have deployed Acacia's AC1200 performance optimized coherent module and can use it to provide 400GbE anywhere and everywhere. They can choose the configuration that meets their ever-changing network needs, from 100 Gbps to 1.2 Tbps. Our module products are powered by our internally developed and purpose-built coherent Digital Signal Processor (DSP) Application-Specific Integrated Circuits (ASICs) and silicon Photonic Integrated Circuits (PICs), which are engineered to work together and integrate numerous signal processing and control functions. The Acacia AC1200 1.2 Tbps module, utilizing two wavelengths, with up to 600-Gbps capacity each, it supports transmission speeds of up to 1.2 Tbps.

Article Content

The Future of Telecommunications: Next-Generation Coherent Optical Modules

However, emerging technologies such as AI, cloud computing, and 5G require even greater capacity. For this reason, telecommunications companies are increasingly turning to coherent fiber

AC1200 Product Family » Acacia

The AC1200 Coherent Module is based on our Pico digital signal processor (DSP) ASIC. In addition to its higher capacity and density, Acacia's AC1200 introduces

Acacia AC1200-002-250_ AC1200 MODULE_liyuan tech

In addition to supporting interoperable line-side transmission, the module also features Acacia's high-performance transmission mode, which has been widely

Acacia Pico DSP and AC 1200 coherent module builds industry

Acacia's AC1200 coherent module supports a combination of high baud rate, flexible modulation formats and enhanced performance features that enable improvements in capacity and reach. These

Acacia Unveils 1.2 Tbps Coherent Module for DCI, Metro, and Long-Haul

Acacia Communications, a provider of high-speed coherent optical interconnect products, has announced its AC1200 Coherent Module, based on its Pico digital signal processor (DSP) ASIC.

Acacia Communications Unveils 1.2 Tbps AC1200 Coherent Module

Acacia Communications announced its AC1200 Coherent Module, based on its Pico digital signal processor (DSP) ASIC. Utilizing two wavelengths, with up to 600 Gbps capacity each,

Applications » Acacia

These complex mesh networks typically cover ranges from approximately 80 to many hundreds of kilometers and may include up to 24 reconfigurable optical add-drop mux (ROADM) nodes. Acacia

Digital Coherent Optical (DCO) Transceiver Modules Market

Digital Coherent Optical (DCO) transceiver modules are advanced optical communication devices used to transmit and receive data over fiber optic networks. They incorporate technology for

Optical Component Revenue Reaches Nearly \$25B in 2025

BOSTON (January 7, 2026) – AI-driven datacenter and transport builds will push the optical components market revenue to a record high in 2025, with datacom revenue forecast to exceed \$18 billion and

Acacia Communications AC1200 1.2T Coherent Module

The Acacia AC1200 1.2T Coherent Module is powered by the company's Pico digital signal processor (DSP) ASIC. Utilizing two wavelengths, with up to 600-Gbps capacity each, it supports...

Acacia Communications debuts 1.2-Tbps AC1200 coherent optical

Acacia Communications (NASDAQ: ACIA) says it plans to begin sampling a 1.2-Tbps coherent optical module during the first half of next year. The AC1200 Coherent will leverage the company's...

Acacia Communications launches 1.2Tbps AC1200 coherent module

Acacia Communications, a developer of high-speed coherent optical interconnects, has launched the AC1200 Coherent Module, based on its Pico digital signal processor (DSP) ASIC.

Products » Acacia

Coherent Optical Components Powering 100G to 1.2T Coherent Modules Our module products are powered by our internally developed and purpose-built coherent Digital Signal Processor (DSP)

PRODUCT PORTFOLIO

PRODUCT PORTFOLIO EMBEDDED MODULES AC1200 Coherent Module The AC1200 Coherent Module is based on Acacia's high-performance Pico digital signal processor (DSP) ASIC with low

Acacia AC1200-001-250_100G/200G/400G cfp2-dco pluggable

The 400G CFP2-DCO module combines Acacia's Greylock DSP ASIC based on 7nm CMOS technology with Acacia's Silicon Photonic integrated circuit (PIC) to Achieve optimized common packaging design.

PSE 100G/400G pluggable coherent optics

Our pluggable coherent modules are used across our optical network platforms, converged IP-optical routing and fixed network access solutions. They can also

About Acacia

March - Introduces the Bright QSFP28 100ZR module with 0 dBm high transmit power
Industry Awards & Accolades As a pioneer in coherent optical technology,

Acacia Intros 1.2T Coherent Module

GOTHENBURG, Sweden and MAYNARD, Mass. -- Acacia Communications (NASDAQ:ACIA), a leading provider of high-speed coherent optical interconnect products, today

Products » Acacia

Acacia is widely recognized as a pioneer of silicon-based PICs for coherent optical communications—the highly integrated Silicon Photonics single-chip PICs are

Introducing the AC1200-SC2 Coherent 1.2T Single-Chip, Single-Channel Module

Acacia has many reasons to be excited about this year's European Conference on Optical Communications (ECOC) and one of the top ones is demonstrating our new AC1200-SC2

FS joins crowded 800G coherent optics space with AI-centric scale ...

FS 800G coherent modules are designed to help customers simplify network expansion and scale network capacity more efficiently,” Kyrie Zhang, senior technical director at FS, noted.

Acacia Communications To Demonstrate Industry-First Coherent 1.2T ...

Maynard, MA (GLOBE NEWSWIRE) - Acacia Communications, Inc. (NASDAQ: ACIA), a leading provider of high-speed coherent optical interconnect products, today announced its AC1200-SC2 (SC

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://umele-pestovani.eu>

Email: info@umele-pestovani.eu

Phone: +49 152 287 6349

Address: Neue Mainzer Straße 66-68, 60311 Frankfurt am Main, Germany

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