Autonomous and controllable optical modules

We present AgentOptics, an agentic AI framework for high-fidelity, autonomous optical system control built on the Model Context Protocol (MCP). AgentOptics interprets natural language ...

In this paper, we present a historical timeline and a future perspective of the evolution of optical network management and control deployed for Wavelength Switched Optical Networks ...

Our optical networking product portfolio provides high-performance, reliable, and scalable optical control and power solutions to address high bandwidth and small form factor modules in both ...

In this review, we propose a "3S" architecture for AI-driven autonomous optical network, which can aid the optical networks operated in "self-aware" of network status, "self-adaptive" of ...

Explore the development trends of AI optical modules, including higher speeds, enhanced integration, lower power consumption, and broader application scenarios.

To address this need, we propose an intelligent optical module for edge deployment featuring millisecond-granularity power sampling and AI-driven analytics for high-precision monitoring of ...

Utilizing Chiplet technology solutions, we are jointly researching and developing advanced Chip-on-Panel (COP) packaging technology for low-cost, high-reliability optical processors, optical modules, ...

Multiple IP domains ...result in different requirements for control architecture & communication paths

This white paper introduces a control paradigm for optical modules that decouples optical layer control from packet layer control and thus, from host software and packet controller software ...

View the TI Optical module block diagram, product recommendations, reference designs and start designing.

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