

Optical Transport Solutions

Portfolio Summary

Advanced WDM Solutions for Central Office and Data Center

Ekinops provides carrier-grade Optical Transport solutions to support Service Providers in facing the evolving network demand.

Scalable

1Gbps to 800Gbps line interface in the same chassis

Efficient

Multiprotocol aggregation and bandwidth optimization including in-band communication channel for easy remote management

Interoperable

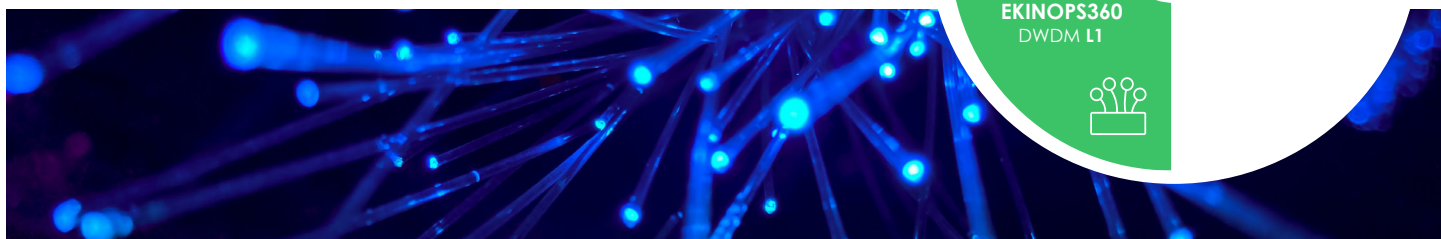
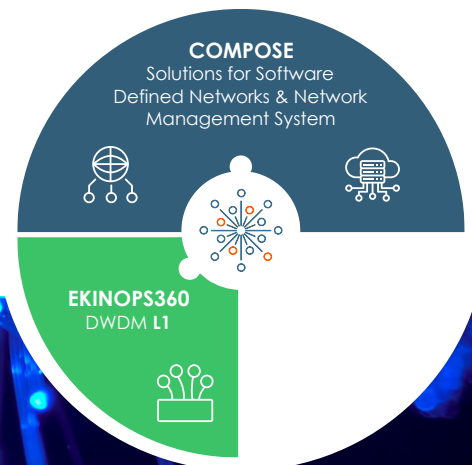
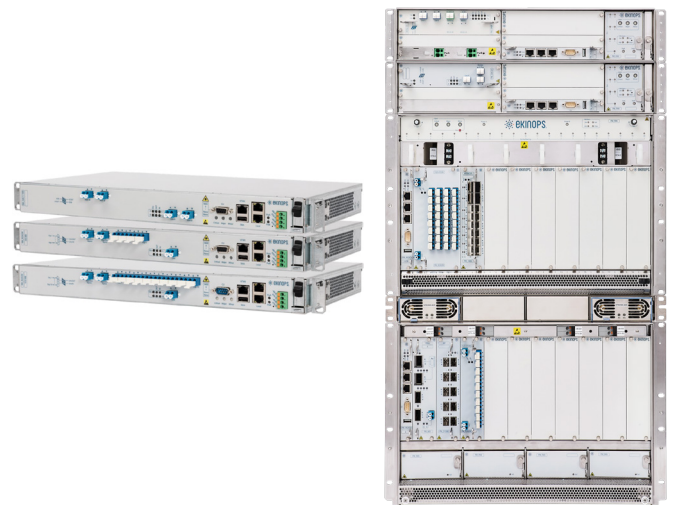
Alien wave over 3rd party line system or 3rd party alien over Ekinops line system. G.709 OTU4 line interfaces for direct connectivity to existing OTN core

Reliable

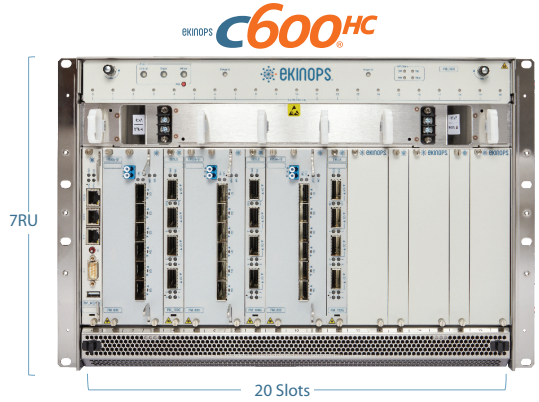
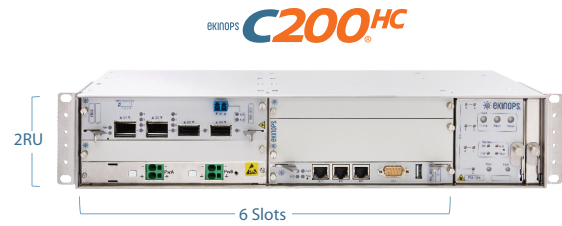
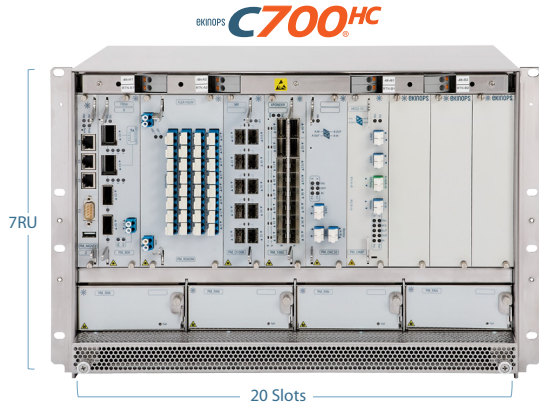
Card level and line level protection with 50 ms switch times

Cost-efficient

Future-proof FlexRate™ architecture and high bandwidth efficiency result in minimized hardware cost



Ekinops Optical Transport Solutions



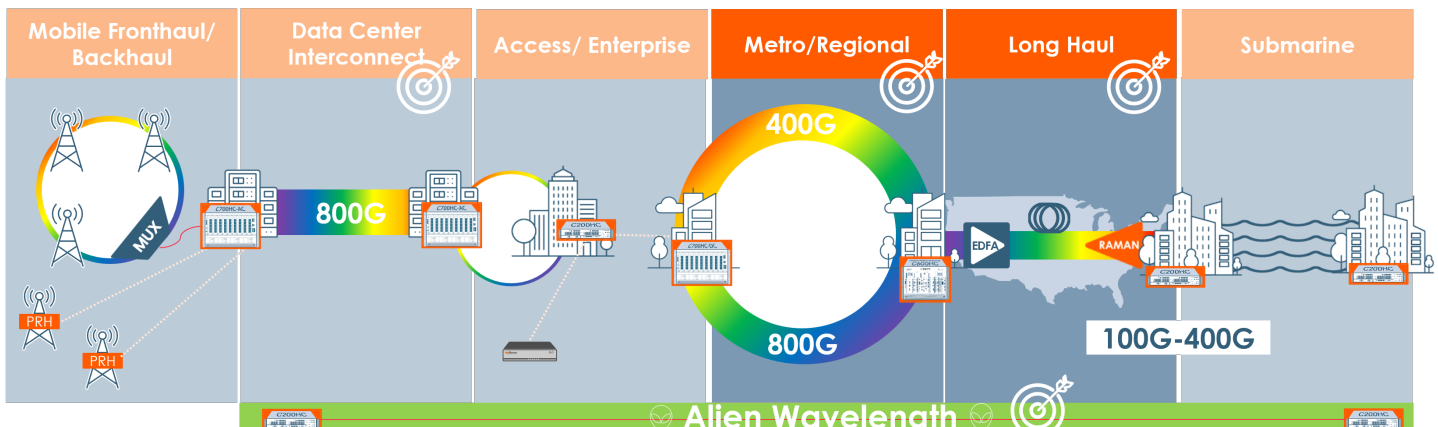
What we do: Optical Transport

Ekinops360

Transport Applications

- Multi-protocol Aggregation
- Bandwidth Optimization
- Protection & Restoration

- Agile Networking
- Efficient Transport
- Single Fiber Working



- Passive filter
- Active Ethernet
- Extended Temperature Range

- High bandwidth connectivity-100G to 800G
- Single chassis for both telco CO and data center environments
- Multiprotocol support
- Low cost & power

- Any-rate services up to 400GbE
- L2 EAD for <10GbE service aggregation
- Small footprint
- AC power option
- Encryption

- 800G connectivity
- 400ZR+ optics
- Multiprotocol aggregation
- ADM for individual services
- 4-, 10-, 20-, and 32-degree ROADMs


- 100G up to 10,000 Km
- 200G over 4,000 Km
- 400G over 1,500 Km
- Low noise amplification

- SLTE transport solution up to 400G
- Bandwidth optimization of submarine links
- Terrestrial network gateway

The Ekinops Advantage

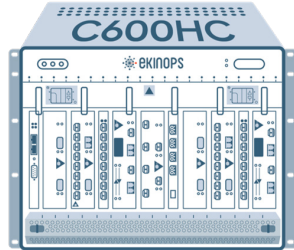
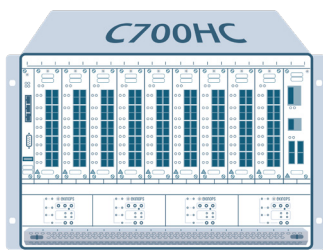
- WDM solution for any transport application—access to ultra-long haul—central office or data center
- Unified management model for all solutions
- Future-proof over 1Tbps—unrestricted backplane speed
- Single fiber operation
- Extended temperature range (-40 °C to +65 °C)
- Modularity
- Plug-and-play

Industry-leading optical engineering

- Leaders in Forward Error Correction technology
- Multiple patents held in optical transport and aggregation
- First foreign member of NEL consortium
- Member of the Open ROADM Multi-Source Agreement 

Technology for today's market

- FlexRate™ programmable line interface—100G to 800G coherent transport from a single hardware module
- 400ZR+ pluggable solution for cost-efficient 100GbE & 400GbE transport
- White Box ROADMs and amplifier supporting high power pluggable optics
- Single management user interface for all chassis



How we innovate

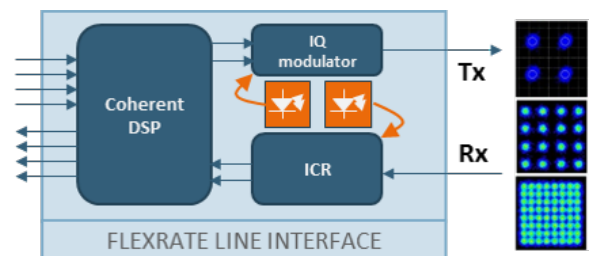
We work with strategic suppliers to secure best-in-class components. We integrate components into our own designs. We develop our own coherent line interface. Together these things allows us to have better control of development and manufacturing, better control of module performance, develop unique features such as single fiber operation, reduce our supply chain risk and speed time to market —we're always a step ahead of MSA & pluggable solutions.

Today at Ekinops, we develop our own coherent line technology that allows us to deliver superior performance and get to market faster with the solutions customers need to keep pace with market demand.

COHERENT TECHNOLOGY

We deliver the right product to the right market at the right time.

- Delivered our first 100G product in 2012—industry's first 'pizza box' solution
- 400G delivered in 2018
- 'Next-gen' 800G based on 135 Gbaud technology delivered 2024



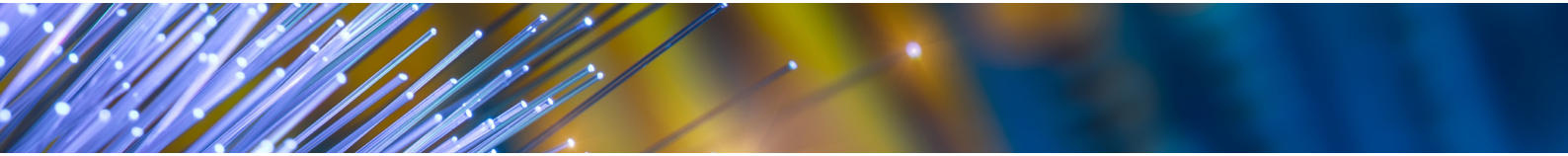
100G - 800G

FlexRate™ TRANSPORT

Selectable performance to meet your application requirements



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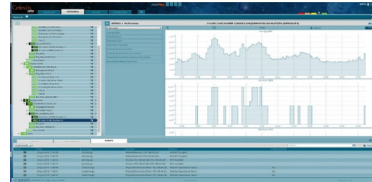
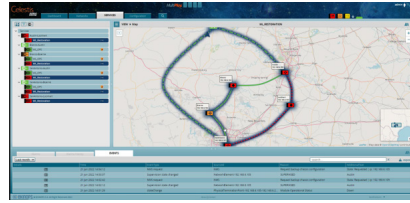
Ekinops360

Single platform for all applications

- Common hardware, software and management
- Multiple form factors for different requirements/ locations
- Modular and fixed configuration 'pizza box'

Celestis NMS integrated system automation tools

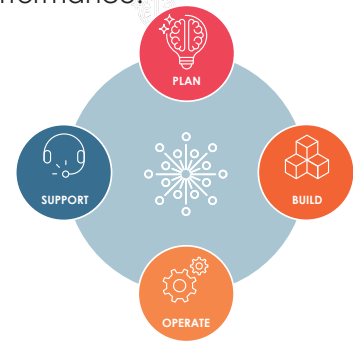
- Design & validation
- Commissioning
- Network, element & service level management
- Power balancing



Services Offering

Ekinops understands that your network is critical to the success of your business. That's why the Ekinops SERVICES portfolio includes the services that are essential to plan, build, operate and support a network that will deliver business-critical services with best-in-class performance.

- **PLAN** – together, we identify what solution best fits you need
- **BUILD** – that's where development realization and integration of the solution happen
- **OPERATE** – our experts train and assist the users
- **SUPPORT** – as the technologies are evolving fast, we provide a system support to all our customers



About Ekinops

Ekinops is a leading provider of open, trusted and innovative network connectivity solutions to service providers around the world. Our programmable and highly scalable solutions enable the fast, flexible and cost-effective deployment of new services for both high-speed, high-capacity optical transport networks as well as virtualization-enabled managed enterprise services.

Our product portfolio consists of three highly complementary product and service sets: Ekinops360, OneAccess and Compose.