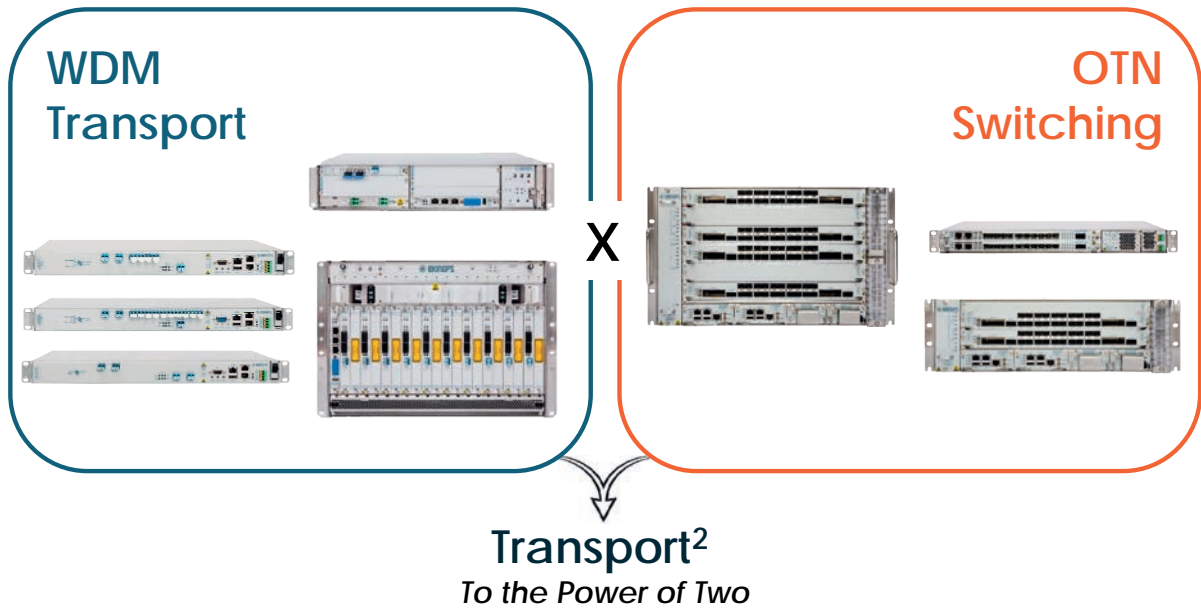# Optical Transport Solutions

Portfolio Summary

Combining WDM & OTN for Greater Performance

Ekinops provides carrier-grade Optical Transport solutions to support Service Providers in facing the evolving network demand.
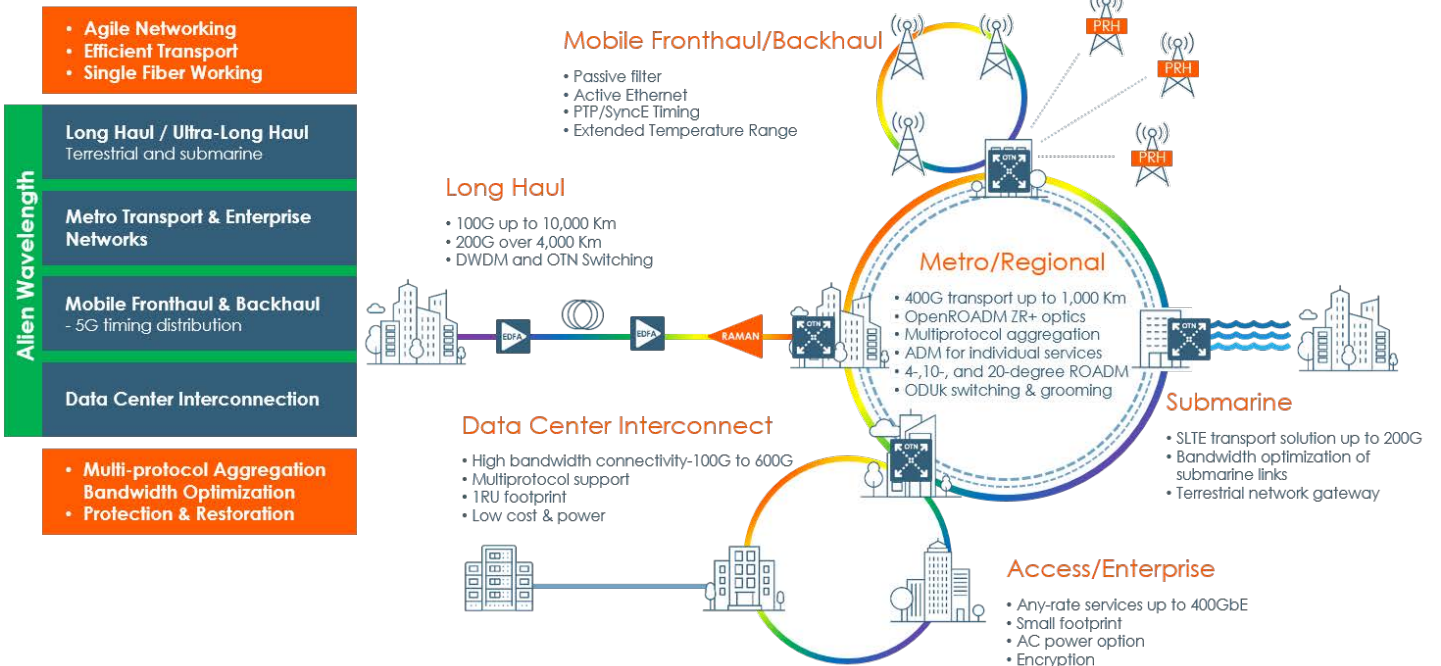
Scalable	1Gbps to 600Gbps line interface in the same chassis
Efficient	ODUk-level switching incl. ODUFlex for greater bandwidth utilization
Interoperable	Alien Wave over 3rd party line system, standards-based OTN, optical "White Box" solutions
Reliable	ASON-based control software, multiple protection and restoration options
Cost-Effective	Future-proof FlexRate™ architecture and high bandwidth efficiency result in minimized hardware cost

Compose
Solutions for Software Defined Networks & Network Management System

Ekinops360
WDM,OTN
L1

Ekinops Optical Transport Solutions

WDM Transport

OTN Switching

X

Transport²
To the Power of Two

What we do: Optical Transport

- **Agile Networking**
- **Efficient Transport**
- **Single Fiber Working**

Long Haul / Ultra-Long Haul
Terrestrial and submarine

Metro Transport & Enterprise Networks

Mobile Fronthaul & Backhaul
- 5G timing distribution

Data Center Interconnection

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

Alien Wavelength

Mobile Fronthaul/Backhaul

- Passive filter
- Active Ethernet
- PTP/SyncE Timing
- Extended Temperature Range

Long Haul

- 100G up to 10,000 Km
- 200G over 4,000 Km
- DWDM and OTN Switching

Metro/Regional

- 400G transport up to 1,000 Km
- OpenROADM ZR+ optics
- Multiprotocol aggregation
- ADM for individual services
- 4-,10-, and 20-degree ROADM
- ODUk switching & grooming

Submarine

- SLTE transport solution up to 200G
- Bandwidth optimization of submarine links
- Terrestrial network gateway

Data Center Interconnect

- High bandwidth connectivity-100G to 600G
- Multiprotocol support
- 1RU footprint
- Low cost & power

Access/Enterprise

- Any-rate services up to 400GbE
- Small footprint
- AC power option
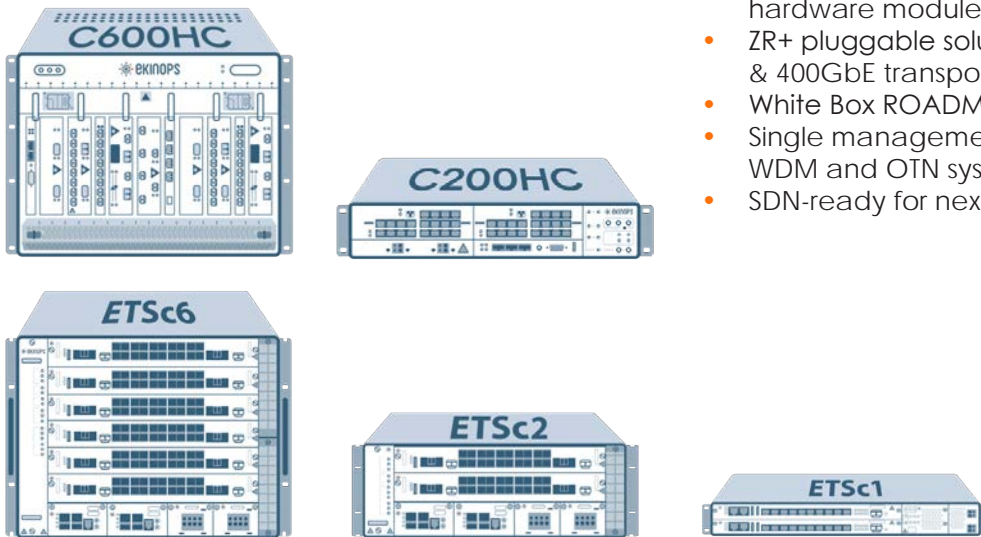- Encryption

The Ekinops Advantage

- Pure WDM, pure OTN or combined solution for any transport application--access to ultra-long haul
- 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
- Member of the Open ROADM Multi-Source Agreement **Open ROADM**

Technology for today's market

- FlexRate™ programmable line interface—100G to 600G coherent transport from a single hardware module
- ZR+ pluggable solution for cost-efficient 100GbE & 400GbE transport
- White Box ROADMs and amplifier
- Single management user interface for both WDM and OTN systems
- SDN-ready for next-gen networks

How we innovate

Ekinops has a long history of innovation that has allowed us to create a unique identity in the marketplace. Since 2003, the Ekinops T-Chip™ has provided significant advantages at 10G line rates with ability to quickly develop new features on existing hardware and extending the reach of transport networks with our DynaFEC technology.

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.
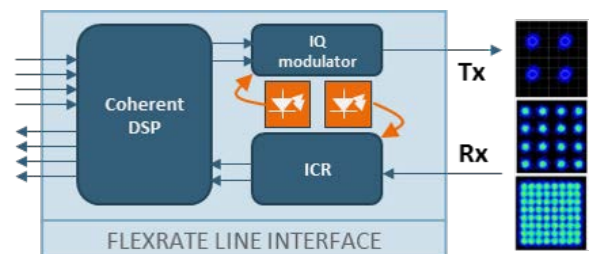
COHERENT TECHNOLOGY

Large R&D investment over past 7 years focused on 100G/200G/400G/600G and beyond coherent technology

SINGLE FIBER WORKING SOLUTION

Reduce fiber costs — 2x fiber efficiency
Available on all line rates from 10G to 600G

FlexRate™ TRANSPORT

Selectable performance to meet your application requirements

100G - 600G

PM 600FRS06-SF

Our WDM offering

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 for both WDM and OTN
- Power balancing

Our OTN offering
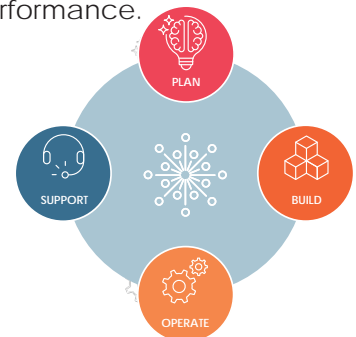
ETSc Platform – Ekinops Compact Transport Switch

- Efficiency

- Flexibility

- Reliability

The ETSc compact transport switch comprises Ekinops360 OTN product line. Three form factors provide a highly functional, service-oriented solution capable of delivering a new class of wavelength services from 1Gbps to 400Gbps from a G.709 standards-based platform transforming service provider infrastructure into a revenue-generating vehicle in its own right. The ETSc platform provides switching granularity from ODU0 to ODU4—including ODUFlex and is Layer 2 capable. The ASON-based control plane supports multiple line protection schemes to maximize the availability of high priority traffic and provide differentiated SLAs.

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 and fully interoperable Layer 1, 2 and 3 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 and virtualization-enabled managed enterprise services.

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

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