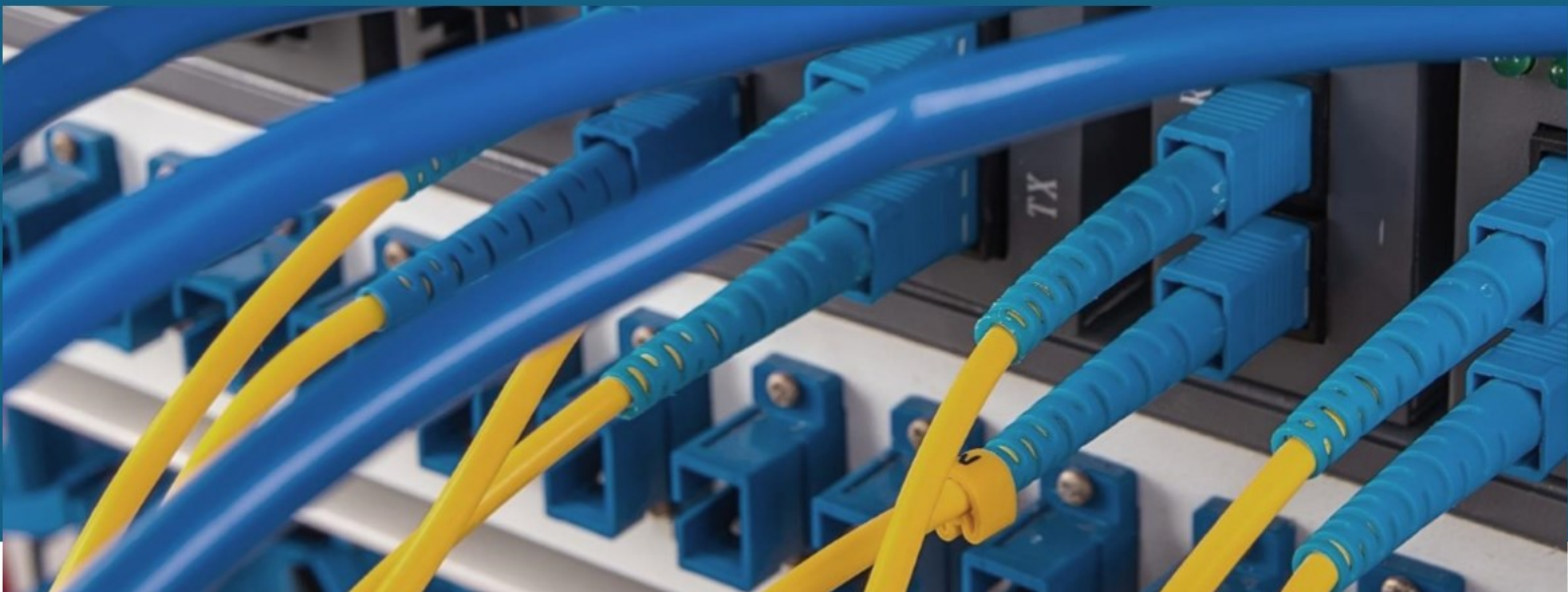




## Open Wetplant Interface



Subphoton's new Open Wetplant Interface (OWI) is an universal and modular line monitoring, spectral reshaping, and channel loading system that provides any line terminal with an open interface to repeatered submarine cable systems.

It enables seamless multivendor operations of open, regional and transoceanic submarine cable systems ready for present and future capacity demands.



## Next Generation Open Wetplant

Designed from the ground up to be compatible with any submarine cable and any optical terminal, Subphoton's Open Wetplant Interface (OWI) offers a seamless multivendor line interface between the line terminal and the repeatered wetplant infrastructure.

## Submarine Line Supervisory and Channel Loader

Subphoton's OWI is designed to provide the highest level of flexibility in an optimized footprint and at minimum cost, and it features:

- Proprietary communication channel for the supervision of Subphoton's OSLA repeaters and branching units.
- NMS for up to 48 fiber pairs.
- Service optical port for coherent OTDR pulse injection.

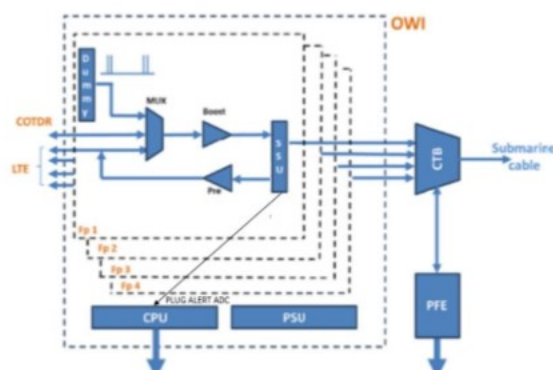
Optionally, it also provides:

- Shaping of the optical power spectrum.
- Real-time power spectral density channel equalization.
- Dynamic capability to inject dummy channels.
- FlexGrid readiness to provide transparency to any baud rate.
- Optical booster and preamplifier.

## Modular Design

Matching the modularity of the Optical Submarine Line Amplifier, the OWI offers a modularity of 4 fiber pairs, expandable to support to up to 48 fiber pairs.

The complete configuration for 4 fiber pair (including the optional modules) fits into three standard 2RU shelves designed for both 19" and 23" racks.



Each 4 fiber pair set of racks can be equipped with:

- SSU (Subphoton Supervision Unit) managing the OSLA supervision.
- Central processor unit (CPU).
- Redundant channel loader unit.
- Modular WSS for aggregation of LTE channels with channel loaders, plus the port for the COTDR.
- Optical line booster.
- Optical pre-amplifier.
- Redundant power supply and fan units.



## Power Redundancy and Efficiency

The OWI supports SDN either natively on the line terminal or via northbound interface from Subphoton's Optical Network Controller. Its native SDN capability removes the need for proprietary software integration, by supporting T-API RESTCONF/YANG models according to ONF specifications.



## Technical Specifications

Application	Open interface for line terminals to wetplant
Network topology	Point to point repeatered submarine links
Redundancy (1+1)	Power, control, fans, channel loader unit
Chassis Size (H x W x D)	1RU chassis: 44.2x482.6x282.0 mm <sup>3</sup> 2RU chassis: 88.4x482.6x282.0 mm <sup>3</sup>
Power supply	-48 VDC (-40.5 to -57 VDC) 1RU fully redundant AC/DC converter
Power consumption	2 RU chassis: 80W (max)
Operating temperature	0°C to +45°C
Relative humidity	5% to 95%
Management	Stackable, can be managed as single NE, Support RESTCONF/Yang model on SBI, local configuration through browser
NBI	REST NBI, T-API or TMF814
Regulations & standards	ETS 300 019-1-3, Class 3.2 ETS 300 019-1-1, Class 2.2 ETS 300 019-1-1, Class 1.2 ETS 300 019-1-1, Class 2.2 ETS 300 386 / EN 300 132-2 / EN 300 753 EN 60825-1/-2 / EN 60950-1

### About Subphoton

At Subphoton, we create the building blocks for open submarine cable architectures. We offer wet plant technology and turnkey solutions that maximize system capacity and enable seamless multivendor operations at the lowest cost per bit. We unlock our customers' potential to innovation and efficiency.

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