

# Cubro Optical Amplifier



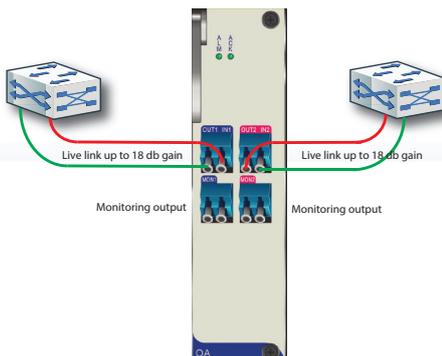
Due to the ever increasing data traffic the demand for high-speed networks like 40G or 100Gbps is growing. One of today's challenges is to monitor such high-speed networks without affecting the services running. Usually optical TAPs are the best choice to provide uninterrupted and save access to for monitoring. But any optical TAP introduces insertion loss and thus the power budget is lowered. In combination with lower power budget 40G and 100G optical transceivers like SFP2 or QSFP this could either result in having optical power problems on the link and also on the monitoring side. In order to avoid optical power budget problems in 40G and 100Gbps monitoring applications Cubro presents an Optical System Platform. That platform consists of integrated OEO (optical-electrical-optical) and OA (optical amplifier) TAP modules.

## Function:

The OA (optical amplifier) is a functional part of the OSP (Optical System Platform), mainly used for 40 and 100Gbps Transmission system. It supports multi-wavelength 100Gbps system like LR4 consisting of 4 wavelengths in the 1300nm region each carrying 25Gbps. The OA module amplifies the multi-wavelength signal and offers a decoupled monitoring output with enough power level for monitoring devices.

## Application:

Link length extension including save and secure monitoring access.



## Features & Functions

Optical inline amplifier for 100 Gbit LR4

### Optical connector

LC (Duplex)

### Certifications

Fully RoHS compliant

### Link Fault Propagation

The OA module is fully transparent to any kind of traffic as well as faults. Thus if one network side fails the second link side will also fail without any delay. Therefore re-routing within the network can be initiated within shortest possible time.

### Wavelengths:

Singlemode version 1290 - 1310nm

### Optical Input:

Max: - 4 dBm  
Min: - 12 dBm

### Optical Output

typical 6,5 dBm

### Optical Gain:

14 or 18 dB

### Management :

console RS232 or Ethernet

### Operating Temperature

0 to 50°C

### Operating Humidity

80% maximum relative humidity

### Rugged 19" Housing

19" 1/3 U high (8 Links)  
Dimensions 482.6 x 300 x 41 mm  
Weight 3.2 kg