OEO Optical Amplification Subsystem

The OEO optical amplification subsystem launched by Guangzhou Sintai Co., Ltd adopts the clock and data recovery (CDR) chip design with the highest performance and flexibility in the industry. It can perfectly realize the function of optical signal regeneration and amplification, signal cleaning and shaping with features of highly compact structure, flexible configuration and low power consumption. The system support the amplification of optical signals at any rate between 100M~100G with all modes and is widely applied in the field of operators, private networks and information systems.

Product Feature

- Support the optical amplification of services at any rates, such as SDH/SONET, POS, GE, 10GE, 40GE, 100GE and so on
- Support optical signal conversion of single mode and multi-mode, single and dual fiber and wavelength conversion
- 1U platform supports as most 32 services amplifying at rate of 155M~10G or 16 service amplifying at rate of 40G~100G
- Adopt modular design with flexible configuration of each OEO function card and excellent scalability
- Support multi-kinds of graphical interface network management, such as SNMP, Web
- Support ALS function to extend the laser lifespan and avoid the damage to humans from laser leakage
- Support AC power 220V, DC power -48V, and 1+1 power input protection
- Free of configuration installation and support plug and play. All the optical interfaces are pluggable to reduce the spare parts cost

Product Specification

Function	Description
Dimension	1U: 44 mm (H)×442 mm (W)×280 mm (D)
Working wavelength range	Multi-mode 850nm, single mode 1260nm~1650nm，CWDM/DWDM
Supported service types	STM-1/4/6/16/64/256，FE/GE/10GE/40GE/100GE
Service access capability	● Support the OEO (optical-electrical-optical) amplification of at most 32 routes' services under any protocols within the rate of 155M~10G ● Support the OEO (optical-electrical-optical) amplification of at most 16 routes' services under any protocols at the rate of 40G or 100G
3R function	Support 3R function: re-amplifying), re-timing, re-shaping
ALS function	Support laser automatic turn-off alarm function. The laser will automatically turn off the emission when it receives no light
Network management	Support multi-kinds of graphical interface network management, such as SNMP, Web
Optical interface	LC/UPC
Working temperature range	-10℃~60℃
Working humidity range	5%~95% no condensation

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Storage temperature	-40℃~85℃
Power supply	AC: 90 ~ 260V or DC: -36 ~ -72 V (support 1+1 power input backup)
Typical power consumption	Full configuration <90W
Heat dissipation	Fan cooling
MTBF	＞100000 hours