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 Features

- 1U rack mount and pluggable chassis. 4 function board slots are supported and boards can be flexibly configured based on requirements.
- 4x100G OEO board has 4 QSFP48 or QSFP+ port, compatible with 100G and 40G network application
- Support wavelength convert and optical signal amplification
- The optical ports are at the front and power units are at the back, which can ensure safe use
- Dual power hot backup: support double -48V, double 220V or one -48V and one 220V power supply
- Simple structure, low power consumption, long lifespan and low cost
- Easy maintenance and network management is optional

Technical parameters

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 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
Storage temperature	-40℃~85℃
Power supply	AC: 90 ~ 260V or DC: -36 ~ -72 V (support 1+1 power input backup)

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Typical power consumption	Full configuration <90W
Heat dissipation	Fan cooling
MTBF	＞100000 hours