DCI BOX Equipment

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Specification

The DCI-2 is a high-rate WDM transmission product. It supports multi-service and large-capacity transmission networking applications. It is mainly launched for the data center interconnect of operators and Internet enterprises, and can also be applied to local networks/Metropolitan area network convergence layer and access layer long-distance network transmission applications. The chassis is only 2U, with 8 general service slots, and the performance of a single slot can be flexibly expanded to meet different service needs. It adopts advanced hardware architecture and no mid-board design, which improves the ventilation and heat dissipation capacity of the equipment, and the single slot capacity is up to 800Gbps, the full system supports a maximum of 3.2Tbps electrical layer processing capacity, providing customers with various transmission solutions with different capacities, different transmission distances, and intelligent business applications.

Functions and features

- Modular design, configuration on demand, smooth upgrade. The AC/DC power supply and fan are modular in design, support hot swapping, all can be flexibly replaced.
- Ultra large capacity, Ultra high density. On this compact 2U platform, it can support 3.2Tbps line-side access, and realize the bidirectional 3.2Tbps electrical layer processing capability. It can effectively expand the transmission capacity to 3.2Tbps per single fiber (single lambda 400Gx8CH).
- Ultra low energy consumption. Based on the most advanced dual carrier 400G coherent DSP modulation and photonic integration technology, including CFP2-ACO and terminal optical

technology, it achieves ultra-low power consumption 20W/100G, which is much better than the industry's general level (100W/100G).

- Modular optical layer function. Realize the modularization and miniaturization of various optical layer devices, and realize optical layer services flexibly.
- Support multi-carrier super channel technology, which greatly improves the spectrum utilization, and can seamlessly interact with the high-performance long-distance optical transmission platform Vispace 1000 equipment or any other third-party optical platform transmission systems.
- Wind in from the front, wind outlet from the back design, AC/DC power supply, reasonable height, width and depth design, adapts to the server rack requirements of the data center machine room, and can be deployed in the same rack with the servers.
- Simple operation and maintenance: Based on the SDN design concept, it provides open APIs, which can be quickly automated and integrated in any IT operating environment to achieve fast service.

Parameters

System Parameter	Technical Index
Maximum capacity of single system	4CH, 8CH, 16CH, 40CH, 48CH, 80CH, 96CH.
Wavelength range	DWDM: 1529.16nm-1567.14nm(191.3THz-196.05THz)
Single channel capacity	100G/200G/400G and three-speed smooth upgrade; coherent detection reception, QPSK/16QAM/16QAMPS modulation technology.
Service access types	OTN: ODU2, ODU2e, ODU3, ODU4. Ethernet: 10GbE, 40GE, 100GbE. SONET: OC-192 SDH: STM-64 FC/FICON: 8G/10G/16G
Physical network topology	Chain type, star type, ring type.
Working temperature	-10℃ ~ 70℃
Storage temperature	-40℃ ~ 80℃
Relative humidity	5% ~ 95% no condensation
Dimensions (mm)	440(W)*88(H)*420(D)
Heat dissipation	Wind in from the front, wind outlet from the back, 4+1 FRU fan.
Structure	Integrated chassis, 19-inch rack.
Power supply	220V/AC, 50Hz; -48V/DC and 240V HVDC power supply. (optional)
Safety and EMC	Comply with FCC, UL, CE, TUV, CSA standards.
Power consumption	<500W